

Prepared in cooperation with the State of Colorado and with other agencies

# Water Resources Data Colorado Water Year 2004

By R.M. Crowfoot, W.F. Payne, G.B. O'Neill, and R.W. Boulger

Water-Data Report CO-04-1

### **U.S. Department of the Interior**

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2005

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### **Preface**

This volume of the annual hydrologic data report of Colorado is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources.

This volume is the culmination of a concerted effort by dedicated personnel of the U. S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to U.S. Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data:

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(Letter after station name designates type and frequency of published data.

Daily tables: (D) discharge

**Periodic tables:** (e) elevation or contents)

SOURI RIVER BASIN	Station number	Pa
souri River:		
PLATTE RIVER BASIN		
North Platte River:		
Michigan River near Cameron Pass (D)	06614800	5
Illinois River below Ish Baldwin Ditch near Walden (D)	06618300	5
Illinois River below Potter Creek near Walden (D)	06618480	5
North Platte River near Northgate (D)	06620000	5
South Platte River:		
Middle Fork South Platte River:		
Mosquito Creek near Alma (D)	06693800	5
Tarryall Creek at upper station near Como (D)	06715000	5
South Platte River above Cheesman Lake (D)		
South Platte River below Cheesman Lake (D)		
Fourmile Creek above mouth near Deckers (D)		
Trout Creek below Fern Creek near Westcreek (D)		
West Creek above Shrewsbury Gulch near Westcreek (D)		
South Platte River below Brush Creek near Trumbull (D)		
North Fork South Platte River above Elk Creek at Pine (D)		
South Platte River at South Platte (D)		
Plum Creek:		
East Plum Creek below Haskins Gulch near Castle Rock (D)	06708800	6
Plum Creek near Sedalia (D)		
Plum Creek at Titan Road near Louviers (D)		
Big Dry Creek below C-470 at Highlands Ranch, CO (D)		
South Platte River below Union Ave. (D)		
Bear Creek above Evergreen (D)		
Bear Creek at Morrison (D)		
Bear Creek above Bear Creek Lake near Morrison (D)		
Turkey Creek near Indian Hills (D)		
Bear Creek at mouth, at Sheridan (D)		
South Platte River at Englewood (D)		
Cherry Creek near Franktown (D)		
Cherry Creek near Parker (D)		
Cherry Creek below Cherry Creek Lake (D)		
Cherry Creek at Denver (D)		
South Platte River at Denver (D)		
South Platte River at 64th Avenue, at Commerce City (D)		
Sand Creek at mouth near Commerce City (D)		
Clear Creek:		
South Clear Creek:		
Leavenworth Creek at mouth near Georgetown (D)	06714800	8
Clear Creek above Georgetown Lake near Georgetown (D)		
Clear Creek above West Fork Clear Creek near Empire (D)		
West Fork Clear Creek above mouth near Empire (D)		
Clear Creek near Lawson (D)		
Chicago Creek below Devils Canyon near Idaho Springs (D)		

### PLATE RIVER BASIN—Continued  Clear Creek above Johnson Gulch near Idaho Springs (D)		Station number	Page
South Plattic River-Continued   Clear Creek above Johnson Gulch near Idaho Springs (D)   .06718300   .89     North Clear Creek above mouth near Blackhawk (D)   .06718550   .90     Clear Creek at Golden (D)   .06719505   .91     South Platte River at Henderson (D)   .06720500   .92     Big Dry Creek at Westiminster (D)   .06720820   .93     Big Dry Creek at Westiminster (D)   .06720820   .93     Big Dry Creek at Westiminster (D)   .06720900   .94     South Platte River at Fort Lupton (D)   .06721000   .95     St. Vrain Creek below Longmont (D)   .06731000   .95     St. Vrain Creek below Longmont (D)   .0673000   .97     Coal Creek near Louisville (D)   .0673000   .97     Coal Creek near Louisville (D)   .0673000   .98     Boulder Creek at Morth 75th Street near Boulder (D)   .0673000   .98     Boulder Creek at mouth near Longmont (D)   .0673000   .99     Big Thompson River at mouth of Caryon near Drake (D)   .0673000   .99     Big Thompson River at mouth of Caryon near Drake (D)   .0673000   .90     Big Thompson River at mouth of Caryon near Drake (D)   .06741510   .102     Cache la Poudre River   .100   .06741510   .102     Cache la Poudre River   .100   .06741510   .102     Cache la Poudre River   .100   .06741510   .105   .105     Joe Wright Creek below Joe Wright Reservoir (D)   .06746095   .103     Joe Wright Creek below Joe Wright Reservoir (D)   .06751490   .106	Missouri RiverContinued		
Clear Creek above Johnson Gulch near Idaho Springs (D)			
North Clear Creek above mouth near Blackhawk (D)			
Clear Crock at Golden (D)			
South Platte River at Henderson (D)   06720500   92			
Big Dry Creek at Westminster (D)         .06720820         .93           Big Dry Creek at mouth near Fort Lupton (D)         .06720990         .94           South Platte River at Fort Lupton (D)         .06721000         .95           St. Vrain Creek below Longmont (D)         .06732000         .96           Boulder Creek at North 75th Street near Boulder (D)         .06730200         .97           Coal Creek near Louisville (D)         .0673000         .98           Boulder Creek at mouth near Longmont (D)         .0673000         .98           Boulder Creek at mouth near Longmont (D)         .0673000         .99           Big Thompson River below Moraine Park near Estes Park (D)         .402114105350101         .100           Big Thompson River at Loveland (D)         .06741510         .102           Cache la Poudre River:         .102         .04741510         .102           Cache la Poudre River:         .102         .067446095         .103           Joe Wright Creek above Joe Wright Reservoir (D)         .06746110         .104           North Fork Cache la Poudre River at Levernore (D)         .06734100         .105           North Fork Cache la Poudre River at Levernore (D)         .06734100         .106           Cache la Poudre River at Fort Collins (D)         .06752200         .107 <td></td> <td></td> <td></td>			
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South Platte River at Fort Lupton (D)			
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Boulder Creek at North 75th Street near Boulder (D)	South Platte River at Fort Lupton (D)	06721000	95
Coal Creek near Louisville (D)			
Boulder Creek at mouth near Longmont (D)	Boulder Creek at North 75th Street near Boulder (D)	06730200	97
Big Thompson River below Moraine Park near Estes Park (D)			
Big Thompson River at mouth of Canyon near Drake (D)	Boulder Creek at mouth near Longmont (D)	06730500	99
Big Thompson River at Loveland (D)	Big Thompson River below Moraine Park near Estes Park (D)	402114105350101	100
Cache la Poudre River:   Joe Wright Creek above Joe Wright Reservoir (D)	Big Thompson River at mouth of Canyon near Drake (D)	06738000	101
Joe Wright Creek above Joe Wright Reservoir (D)	Big Thompson River at Loveland (D)	06741510	102
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North Fork Cache la Poudre River below Halligan Reservoir near Virginia Dale (D)	Joe Wright Creek above Joe Wright Reservoir (D)	06746095	103
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Cache la Poudre River at mouth of Canyon near Fort Collins (D)       .06752200       107         Cache la Poudre River at Fort Collins (D)       .06752260       108         Cache la Poudre River above Box Elder Creek near Timnath (D)       .06752280       109         Lonetree Creek near Greeley (D)       .06753990       110         South Platte River near Kersey (D)       .06754000       111         South Platte River near Weldona (D)       .06758500       112         South Platte River at Fort Morgan (D)       .06759500       113         South Platte River at Julesburg (D)       .06764000       114         LOWER MISSISSIPPI RIVER BASIN         Mississippi River:       ARKANSAS RIVER BASIN         Arkansas River:       East Fork Arkansas River at Highway 24 near Leadville (D)       .07079300       115         Arkansas River near Leadville (D)       .07081200       116         Lake Fork Arkansas River:       Dinero Mine drainage tunnel below Turquoise Lake near Leadville (D)       .391504106225200       117         Halfmoon Creek near Malta (D)       .07083000       118         Arkansas River below Empire Gulch near Malta (D)       .07083700       118         Arkansas River at Granite (D)       .07087050       121         Arkansas River at Granite (D)       .0708700       122	North Fork Cache la Poudre River below Halligan Reservoir near Virginia Dale (D)	06751150	105
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Lake Fork Arkansas River:       Dinero Mine drainage tunnel below Turquoise Lake near Leadville (D)       391504106225200       117         Halfmoon Creek near Malta (D)       07083000       118         Arkansas River below Empire Gulch near Malta (D)       07083710       119         Arkansas River at Granite (D)       07086000       120         Arkansas River below Granite (D)       07087050       121         Arkansas River near Nathrop (D)       07091200       122         Arkansas River near Wellsville (D)       07093700       123         Arkansas River at Parkdale (D)       07094500       124         Arkansas River at Canon City (D)       07096000       125         Fourmile Creek below Cripple Creek near Victor (D)       07096250       126         Arkansas River at Portland (D)       07097000       127         Beaver Creek above Upper Beaver Cemetery near Penrose (D)       07099050       128         Beaver Creek above Highway 115 near Penrose (D)       07099060       129	• • • • • • • • • • • • • • • • • • • •		
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ARKANSAS RIVER RASIN-Continued  Arkansas River-Continued  Turkcy Creck above Teller Reservoir near Stone City (D)	Mississippi RiverContinued	Station number	Page
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Turkey Creek East Seepage below Teller Reservoir near Stone City (D) 382628104493700 133 Turkey Creek west Scopage below Teller Reservoir near Stone City (D)		07000220	121
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Turkey Creek near Stone City (D)			
Teller Reservoir Spillway near Stone City (D)			
Arkansas River above Pueblo (D)			
Arkansas River at Moffat Street at Pueblo (D)	± • • · · · · · · · · · · · · · · · · ·		
Fountain Creek at Green Mountain Falls (D)			
Fountain Creek near Colorado Springs (D)			
Camp Creek at Garden of the Gods (D)			
Monument Creek			
North Monument Creek at Spring Street at Palmer Lake (D)	*	.0/103/03	. 140
Monument Creek above North Gate Boulevard at U.S. Air Force Academy (D)   07103780   142		07102740	
West Monument Creek at U.S. Air Force Academy (D)         07103797         143           West Monument Creek at U.S. Air Force Academy (D)         07103800         144           Monument Creek at Woodmen Road at Colorado Springs (D)         07103970         145           Cottonwood Creek at Woodmen Road near Colorado Springs (D)         07103980         146           Cottonwood Creek at woodh at Pikeview (D)         07103990         147           Monument Creek at Pikeview (D)         07104000         148           Monument Creek at Bijou Street at Colorado Springs (D)         07104905         149           Bear Creek near Colorado Springs (D)         07105000         150           Cheyenne Creek at Evans Avenue at Colorado Springs (D)         07105000         150           Cheyenne Creek at Evans Avenue at Colorado Springs (D)         07105500         152           Fountain Creek at Colorado Springs (D)         07105500         152           Fountain Creek at Evans Avenue at Colorado Springs (D)         07105500         152           Fountain Creek at Security (D)         07105500         153           Sand Creek above Bot Air Colorado Springs (D)         07105500         154           Fountain Creek at Eventain (D)         07105900         155           Jimmy Camp Creek at Fountain (D)         07105900         156			
West Monument Creek at U.S. Air Force Academy (D)         .07103800         1.44           Monument Creek above Woodmen Road at Colorado Springs (D)         .07103970         1.45           Cottonwood Creek at Woodmen Road near Colorado Springs (D)         .07103980         1.46           Cottonwood Creek at mouth at Pikeview (D)         .07103990         1.47           Monument Creek at Bijeu Street at Colorado Springs (D)         .07104005         1.48           Monument Creek at Evans Avenue at Colorado Springs (D)         .07105000         1.50           Cheyenne Creek at Evans Avenue at Colorado Springs (D)         .07105500         1.50           Cheyenne Creek at Evans Avenue at Colorado Springs (D)         .07105500         1.52           Fountain Creek at Colorado Springs (D)         .07105500         1.52           Fountain Creek at Colorado Springs (D)         .07105500         1.52           Fountain Creek at Security (D)         .07105600         1.54           Fountain Creek at Security (D)         .07105600         1.54           Fountain Creek at Security (D)         .07105900         1.56           Rock Creek above Fort Carson Reservation (D)         .07105900         1.56           Rock Creek above Fort Carson Reservation (D)         .07105900         1.58           Fountain Creek near Pinon (D)         .07105900 </td <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td></td>	· · · · · · · · · · · · · · · · · · ·		
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Station number (Link to NWISWeb)

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South Platte River below Brush Creek near Trumbull (D,TU)	06701900
North Fork South Platte River:	00701500
North Fork South Platte River above Elk Creek at Pine (DR)	06706400
South Platte River at South Platte (D*)	06707500
Plum Creek:	30.0.00
East Plum Creek below Haskins Gulch near Castle Rock (D)	06708800
Plum Creek near Sedalia (D)	06709000
Plum Creek at Titan Road near Louviers (D)	06709530
Big Dry Creek below C-470 at Highlands Ranch (D)	06710150
South Platte River below Union Avenue at Englewood (D)	06710247
Bear Creek above Evergreen (D)	06710385
Bear Creek at Morrison (D*)	06710500
Bear Creek above Bear Creek Lake near Morrison (D)	06710605
Turkey Creek near Indian Hills (D)	06710992
Bear Creek at mouth, at Sheridan (D*)	06711500
South Platte River at Englewood (DTPCO)	06711565
Cherry Creek near Franktown (D)	06712000
Cherry Creek near Parker (D)	393109104464500
Cherry Creek below Cherry Creek Lake (D)	06713000
Cherry Creek at Denver (D)	06713500
South Platte River at Denver (D*)	06714000
South Platte River at 64th Avenue, at Commerce City (D)	06714215
Sand Creek at mouth near Commerce City (D)	394839104570300
Clear Creek:	
South Clear Creek:	
Leavenworth Creek at mouth near Georgetown (D)	06714800
Clear Creek above Georgetown Lake near Georgetown (D)	394308105413800

Station number (Link to NWISWeb)

Missouri River—Continued

394359105411901
06715000
06716100
06716500
06717400
06718300
06718550
06719505
06720500
06720820
06720990
06721000
06725450
06730200
06730400
06730500
402114105350101
402231105291900
06737500
403147105083800
06738000
06741510
06742500
06746095
06746110
06751150
06751490
06752000
06752258
06752260
06752270
06752280
06753990
06754000
06758500
06759500
06764000

### LOWER MISSISSIPPI RIVER BASIN

Mississippi River:

### ARKANSAS RIVER BASIN

Arkansas River:

East Fork Arkansas River at Highway 24 near Leadville (D)	07079300
Arkansas River near Leadville (D)	07081200

Station number (Link to NWISWeb)

Mississippi River—Continued

ARKANSAS RIVER BASIN—Continued	
Lake Fork Arkansas River:	
Dinero Mine Drainage Tunnel below Turquoise Lake near Leadville (D)	391504106225200
Halfmoon Creek near Malta (D)	07083000
Arkansas River below Empire Gulch near Malta (D)	07083710
Arkansas River at Granite (D*CTct)	07086000
Arkansas River below Granite (D)	07087050
Arkansas River near Nathrop (DT)	07091200
Arkansas River near Wellsville (D*ct)	07093700
Arkansas River at Parkdale (DT)	07094500
Arkansas River at Canon City (D*CT)	07096000
Fourmile Creek below Cripple Creek near Victor (D)	07096250
Arkansas River at Portland (D*CTct)	07097000
Beaver Creek above Upper Beaver Cemetery near Penrose (D)	07099050
Beaver Creek above Highway 115 near Penrose (D)	07099060
Arkansas River near Portland (ct)	07099200
Turkey Creek near Fountain (D)	07099215
Turkey Creek above Teller Reservoir near Stone City (D)	07099230
Teller Reservoir near Stone City (E)	07099233
Turkey Creek East Seepage below Teller Reservoir near Stone City (D)	382629104493000
Turkey Creek West Seepage below Teller Reservoir near Stone City (D)	382628104493700
Turkey Creek near Stone City (D)	07099235
Teller Reservoir Spillway near Stone City (DR)	07099238
Pueblo Reservoir near Pueblo (ct)	07099350
Arkansas River above Pueblo (D*ctCT)	07099400
Wild Horse Creek at mouth at Pueblo (ct)	381628104381700
Arkansas River at St. Charles Mesa Diversion, at Pueblo (C)	07099969
Arkansas River at Moffat Street, at Pueblo (DctCT)	07099970
Fountain Creek at Green Mountain Falls (DR)	07099990
Fountain Creek near Colorado Springs (Dctsm)	07103700
Camp Creek at Garden of the Gods (D)	07103703
Fountain Creek at 8th Street, at Colorado Springs (cmts)	07103707
Monument Creek:	
North Monument Creek at Spring Street at Palmer Lake (DR)	07103740
Monument Creek above North Gate Boulevard at U.S. Air Force Academy (DctmsR)	07103780
West Monument Creek below Rampart Reservoir (D)	07103797
West Monument Creek at U.S. Air Force Academy (DR)	07103800
Kettle Creek above Old Ranch Road near Colorado Springs (cmts)	385854104470100
Kettle Creek above U.S. Air Force Academy (dRctms)	07103960
Pine Creek above Highway 83 at Colorado Springs (cmts)	385750104475001
Monument Creek above Woodmen Road at Colorado Springs (DctmsS)	07103970
Cottonwood Creek at Cowpoke Road, at Colorado Springs (dctms)	07103977
Cottonwood Creek at Woodmen Road near Colorado Springs (DRs)	07103980
Cottonwood Creek Tributary above Rangewood Drive at Colorado Springs (dctms)	07103985
Cottonwood Creek at mouth at Pikeview (DctmsS)	07103990
Monument Creek at Pikeview (D)	07104000
Monument Creek Tributary 1 near Pulpit Rock at Colorado Springs (cmts)	385501104483701
North Rockrimmon Creek above Delmonico Drive at Colorado Springs (dctms)	07104050
Monument Creek Tributary 2 below Fillmore Street at Colorado Springs (cmts)	385204104510101

Station number (Link to NWISWeb)

Mississippi River—Continued

ARKANSAS RIVER BASIN—Continued	
Monument Creek—Continued	
Monument Creek Tributary 2 at Sondermann Park at Colorado Springs (cmts)	385124104501301
Monument Creek at Bijou Street at Colorado Springs (DctmsRS)	07104905
Bear Creek near Colorado Springs (Dctms)	07105000
Bear Creek above 8th Street at Colorado Springs (dcmts)	384909104504401
Cheyenne Creek at Evans Avenue at Colorado Springs (DR)	07105490
Fountain Creek at Colorado Springs (DctmsS)	07105500
Fountain Creek below Janitell Road below Colorado Springs (DctmsR)	07105530
Sand Creek above mouth at Colorado Springs (DctmsS)	07105600
Fountain Creek at Security (DctmsS)	07105800
Jimmy Camp Creek at Fountain (Dctms)	07105900
Rock Creek above Fort Carson Reservation (D)	07105945
Fountain Creek near Fountain (DctmsCPTO)	07106000
Williams Creek at the mouth near Wigwam (cmts)	383347104373401
Sutherland Ditch at mouth near Pinon (cmts)	382625104353701
Fountain Creek near Pinon (DctmsR)	07106300
Fountain Creek at Pueblo (DctmsCTS)	07106500
Pueblo Wastewater Treatment Plant Outfall (ct)	381522104342100
CF&I Steel Corporation Outfall (ct)	381530104333200
St. Charles River at Vineland (Dct)	07108900
Arkansas River near Avondale (DctCPTO)	07109500
Huerfano River near Boone (D)	07116500
Apishapa River near Fowler (DR)	07119500
Arkansas River at Catlin Dam near Fowler (D*ctCT)	07119700
Lake Meredith Outlet at Highway 71 near Ordway (CTct)	07120480
Arkansas River near Rocky Ford (ct)	07120500
Timpas Creek at mouth near Swink (D)	07121500
Arkansas River at La Junta (D*)	07123000
Arkansas River at Las Animas (DCT)	07124000
Purgatoire River at Madrid (DR)	07124200
Trinidad Lake near Trinidad (E)	07124400
Purgatoire River below Trinidad Lake (D)	07124410
Van Bremer Arroyo near Tyrone (DR)	07126140
Van Bremer Arroyo near Model (DRsS)	07126200
Purgatoire River near Thatcher (DR)	07126300
Taylor Arroyo below Rock Crossing near Thatcher (DRS)	07126325
Lockwood Canyon Creek near Thatcher (DRS)	07126390
Red Rock Canyon Creek at mouth near Thatcher (DRS)	07126415
Bent Canyon Creek at mouth near Timpas (DRS)	07126480
Purgatoire River at Rock Crossing near Timpas (DsSR)	07126485
Purgatoire River near Las Animas (DR)	07128500
John Martin Reservoir at Caddoa (E)	07130000
Arkansas River below John Martin Reservoir (DCT)	07130500
Arkansas River at Lamar (D)	07133000
Big Sandy Creek near Lamar (DR)	07134100
Arkansas River near Granada (D)	07134180
Wild Horse Creek above Holly (D)	07134990
Frontier Ditch near Coolidge, KS (D)	07137000

Station number (Link to NWISWeb)

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ARKANSAS RIVER BASIN—Continued Arkansas River near Coolidge, KS (D)	07137500
WESTERN GULF OF MEXICO BASINS	
RIO GRANDE BASIN	
Rio Grande:	
South Fork Rio Grande at South Fork (D*)	08219500
Rio Grande near Del Norte (D*)	08220000
Closed Basin in San Luis Valley:	
Kerber Creek above Little Kerber Creek near Villa Grove (D*)	08224500
Saguache Creek near Saguache (D*ct)	08227000
La Garita Creek near La Garita (D*)	08231000
Closed Basin Project Canal near Alamosa (D*)	372833105455800
Trinchera Creek:	
Ute Creek near Fort Garland (D*)	08242500
Conejos River below Platoro Reservoir (D*)	08245000
Conejos River near Mogote (D*)	08246500
San Antonio River at Ortiz (D*)	08247500
Los Pinos River near Ortiz (D*)	08248000
Conejos River near Lasauses (D*)	08249000
Culebra Creek at San Luis (D*)	08250000
Rio Grande near Lobatos (D*ct)	08251500
COLORADO RIVER BASIN	
Colorado River:	
Colorado River below Baker Gulch near Grand Lake (D)	09010500
Lake Granby near Granby (tcbm)	09018500
Colorado River near Granby (D)	09019500
FRASER RIVER BASIN	
Fraser River at upper station near Winter Park (Dtc)	09022000
Fraser River below Buck Creek at Winter Park (tc)	09023750
Fraser River at Winter Park (D)	09024000
Vasquez Creek at Winter Park (D)	09025000
Fraser River below Vasquez Creek at Winter Park (tc)	09025010
Elk Creek at upper station near Fraser (D)	09025300
St. Louis Creek near Fraser (D)	09026500
Fraser River at Tabernash (tc)	09027100
Ranch Creek near Fraser (Dtcm)	09032000
Cabin Creek near Fraser (D)	09032100
Ranch Creek below Cabin Creek near Tabernash (tcm)	395840105472700
Ranch Creek below Meadow Creek near Tabernash (Dtcm)	09033100
Crooked Creek below Tipperary Creek near Tabernash (tcm)	395634105532401
Crooked Creek above Pole Creek at Tabernash (tcm)	395927105505700
Pole Creek at upper station near Tabernash (tcm)	395901105550800
Pole Creek at mouth near Tabernash (tcm)	395930105510700
Fraser River below Crooked Creek at Tabernash (Dtcm)	09033300
Fraser River at Highway 40 at Granby (tcm)	400453105554200
Tenmile Creek near Granby (tcm)	400352105550700

Station number (Link to NWISWeb)

Colorado River—Continued

FRASER RIVER BASIN—Continued Fraser River—Continued	
Tenmile Creek above mouth near Granby (tcm)	400433105560600
Colorado River at Windy Gap near Granby (Dct)	09034250
WILLIAMS FORK BASIN	
Williams Fork:	
Bobtail Creek near Jones Pass (D)	09034900
Williams Fork below Steelman Creek (D)	09035500
Williams Fork above Darling Creek near Leal (D)	09035700
Darling Creek near Leal (D)	09035800
South Fork Williams Fork near Leal (D)	09035900
Williams Fork near Leal (D)	09036000
Williams Fork near Parshall (D)	09037500
Williams Fork below Williams Fork Reservoir (D)	09038500
MUDDY CREEK BASIN	
Muddy Creek above Antelope Creek near Kremmling (DtcmsCT)	09041090
Wolford Mountain Reservoir at Inflow near Kremmling (tc)	401110106244800
Wolford Mountain Reservoir at Midlake near Kremmling (tcmb)	400841106240600
Alkali Slough #2 at Wolford Mountain Reservoir near Kremmling (ct)	400812106254800
Wolford Mountain Reservoir near Kremmling (ectmb)	09041395
Muddy Creek below Wolford Mountain Reservoir near Kremmling (DctmCTO)	09041400
BLUE RIVER BASIN	
Monte Cristo Creek (head of Blue River):	
Monte Cristo Diversion near Hoosier Pass (D)	09041900
Hoosier Creek:	
Bemrose-Hoosier Diversion near Hoosier Pass (D)	09044300
Blue River:	
McCullough Creek:	
McCullough-Spruce-Crystal Diversion near Hoosier Pass (D)	09044800
Blue River at Blue River (D)	09046490
French Gulch at Breckenridge (D)	09046530
Blue River near Dillon (D)	09046600
Snake River near Montezuma (D)	09047500
Keystone Gulch near Dillon (D)	09047700
Tenmile Creek below North Tenmile Creek at Frisco (D)	09050100
Blue River below Dillon (D)	09050700
Straight Creek below Laskey Gulch near Dillon (D)	09051050
Blue River below Green Mountain Reservoir (D)	09057500
Colorado River near Kremmling (Dctm)	09058000
PINEY RIVER BASIN	
Piney River below Piney Lake near Minturn (D)	09058500
Dickson Creek near Vail (D)	09058610
Freeman Creek near Winturn (D)	09058700
East Meadow Creek near Minturn (D)	09058800
Piney River near State Bridge (D)	09059500
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Colorado River—Continued

West Divide Creek near Raven (D)

EAGLE RIVER BASIN	
Eagle River:	
East Fork Eagle River near Climax (D)	09061600
East Fork Eagle River near Red Cliff (ctm)	392511106164000
Eagle River at Red Cliff (Dctms)	09063000
Turkey Creek:	
Wearyman Creek near Red Cliff (D)	09063200
Turkey Creek near Red Cliff (D)	09063400
Homestake Creek:	
Missouri Creek near Gold Park (D)	09063900
Homestake Creek at Gold Park (D)	09064000
Homestake Creek near Red Cliff (D)	09064500
Eagle River near Minturn (DT)	09064600
Cross Creek near Minturn (D)	09065100
Gore Creek at upper station near Minturn (D)	09065500
Black Gore Creek near Minturn (D)	09066000
Bighorn Creek near Minturn (D)	09066100
Pitkin Creek near Minturn (D)	09066150
Booth Creek near Minturn (D)	09066200
Middle Creek near Minturn (D)	09066300
Gore Creek above Red Sandstone Creek at Vail (D)	09066325
Red Sandstone Creek near Minturn (D)	09066400
Gore Creek at mouth near Minturn (DctmsT)	09066510
Beaver Creek at Avon (D)	09067000
Eagle River at Avon (ctms)	09067005
Eagle River below Wastewater Treatment Plant at Avon (D)	09067020
Lake Creek near Edwards (D)	09067200
Eagle River below Milk Creek near Wolcott (ctms)	394220106431500
Eagle River at Gypsum (ctms)	09069000
Eagle River below Gypsum (DT)	09070000
Colorado River near Dotsero (D)	09070500
Colorado River above Glenwood Springs (ctTC)	09071750
ROARING FORK RIVER BASIN	
Roaring Fork River above Difficult Creek near Aspen (Dctm)	09073300
Roaring Fork River near Aspen (D)	09073400
Hunter Creek near Aspen (D)	09074000
Fryingpan River:	
Ruedi Reservoir near Basalt (e)	09080190
Fryingpan River near Ruedi (D)	09080400
Roaring Fork River near Emma (Dctms)	09081000
Crystal River above Avalanche Creek near Redstone (Dctm)	09081600
Crystal River below Carbondale (Dctm)	09083800
Roaring Fork River at Glenwood Springs (DctmT)	09085000
Colorado River below Glenwood Springs (D)	09085100
DIVIDE CREEK BASIN	
Divide Creek:	
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Colorado	River-	-Continued
Colorado	111101	Commuca

RIFLE CREEK BASIN	
Rifle Creek: Rifle Gap Reservoir near Rifle (e)	09091900
ROAN CREEK BASIN	
Roan Creek:	
Dry Fork at upper station near De Beque (Dcts)	09095300
Colorado River near Cameo (DctCT)	09095500
PLATEAU CREEK BASIN	
Vega Reservoir near Collbran (e)	09096100
Plateau Creek below Collbran (D)	09097900
Plateau Creek near Cameo (DctCT)	09105000
Colorado River below Grand Valley Diversion near Palisade (D)	09106150
LEWIS WASH BASIN	
Lewis Wash near Grand Junction (Dct)	09106200
GUNNISON RIVER BASIN	
Gunnison River:	
Taylor River:	
Taylor River at Taylor Park (D)	09107000
Taylor River below Taylor Park Reservoir (D)	09109000
Taylor River at Almont (D)	09110000
East River above Slate River, near Crested Butte (ctmb)	384950106544200
Coal Creek above mouth at Crested Butte (ctmbs)	385224106590100
Washington Gulch below Woods Creek at Mt. Crested Butte (ctmb)	385325106581200
Slate River near Crested Butte (Dctmbs)	09111500
East River below Cement Creek near Crested Butte (Dctmbs)	09112200
East River at Almont (Dctmb)	09112500
Ohio Creek near Baldwin (cts)	09113500
Ohio Creek above mouth near Gunnison (Dctmb)	09113980
Gunnison River near Gunnison (Dctmb)	09114500
Tomichi Creek at Sargents (D)	09115500
Cochetopa Creek below Rock Creek near Parlin (D)	09118450
Tomichi Creek below Cochetopa Creek near Parlin (ctmbs)	383126106475600
Tomichi Creek at Gunnison (Dctmbs)	09119000
Gunnison River at County Road 32 below Gunnison (ctmb)	383103106594200
Lake Fork Gunnison River:	
Henson Creek at Mouth near Lake City (cts	380133107190000
Lake Fork Gunnison River near Lake City (cts)	380233107180701
Lake Fork at Gateview (D)	09124500
Silver Jack Reservoir near Cimarron (e)	09125800
Cimarron River near Cimarron (D)	09126000
Gunnison River below Gunnison Tunnel (DCT, TU)	09128000
Crawford Reservoir near Crawford (e)	09129550
Muddy Creek (head of North Fork Gunnison River):	0012140#
Paonia Reservoir near Bardine (e)	09131495

Station number (Link to NWISWeb)

Colorado River—Continued

GUNNISON RIVER BASIN—Continued	
Gunnison River—Continued	
North Fork Gunnison River near Somerset (D)	09132500
Hubbard Creek above Iron Point Gulch near Bowie (D)	09132940
Hubbard Creek at Highway 133 at mouth near Bowie (D)	09132960
East Fork Terror Creek below Cottonwood Stomp near Bowie (D)	09132985
Terror Creek at mouth near Bowie (D)	09132995
Minnesota Creek near Paonia (D)	09134000
North Fork Gunnison River below Paonia (D)	09134100
North Fork Gunnison River below Leroux Creek near Hotchkiss (D)	09135950
Tongue Creek:	
Surface Creek near Cedaredge (D)	09143000
Surface Creek at Cedaredge (D)	09143500
Fruit Growers Reservoir near Orchard City (e)	09143600
Gunnison River at Delta (D)	09144250
Uncompangre River near Ouray (Dctm)	09146020
Uncompangre River near Ridgway (Dctm)	09146200
Dallas Creek near Ridgway (D)	09147000
Ridgway Reservoir near Ridgway (e)	09147022
Uncompangre River below Ridgway Reservoir (D)	09147025
Uncompangre River at Colona (D)	09147500
Uncompangre River at Delta (D)	09149500
Gunnison River near Grand Junction (DctCT)	09152500
Colorado River near Colorado-Utah State line (DctsCT)	09163500
DOLORES RIVER BASIN	
Dolores River below Rico (D)	09165000
Dolores River at Dolores (D)	09166500
Lost Canyon Creek near Dolores (D)	09166950
Dolores River at Bedrock (DctCT)	09169500
West Paradox Creek above Bedrock (ct)	09170800
Dolores River near Bedrock (DctCT)	09171100
San Miguel River near Placerville (D)	09172500
San Miguel River at Brooks Bridge near Nucla (D)	09174600
San Miguel River at Uravan (D)	09177000
GREEN RIVER BASIN	
Yampa River above Stagecoach Reservoir (D)	09237450
Yampa River below Stagecoach Reservoir (D)	09237450
Fish Creek at upper station near Steamboat Springs (D) Yampa River at Steamboat Springs (DctmT)	09238900
1 0 ,	09239500
Elk River near Milner (D)  Venne Biver shove Elkhood Creek peer Hoyden (D)	09242500
Yampa River above Elkhead Creek near Hayden (D) Elkhead Creek above Long Gulch near Hayden (D)	09244490 09246200
Elkhead Creek above Long Gulch near Hayden (D)  Elkhead Creek below Maynard Gulch near Craig (D)	09246400
· · · · · · · · · · · · · · · · · · ·	
Fortification Creek near Fortification (D)	09246920 09247600
Yampa River peer Meybell (DetCPT)	
Yampa River near Maybell (DctCPT)	09251000

Station number (Link to NWISWeb)

Colorado River—Continued

GREEN RIVER BASIN—Continued	
Yampa River—Continued	
Little Snake River near Slater (D)	09253000
Slater Fork near Slater (D)	09255000
Little Snake River near Lily (D)	09260000
Yampa River at Deerlodge Park (DctmT)	09260050
White River:	
North Fork White River at Buford (ctm)	09303000
South Fork White River at Buford (ctm)	09304000
White River below North Elk Creek near Buford (D)	09304115
White River above Dry Creek near Meeker (ctm)	395650107435600
White River above Coal Creek near Meeker (Dctm)	09304200
White River near Meeker (D)	09304500
White River below Meeker (Dctms)	09304800
Piceance Creek below Ryan Gulch near Rio Blanco (Dcts)	09306200
Piceance Creek at White River (Dctms)	09306222
Yellow Creek:	
Corral Gulch near Rangely (Dcts)	09306242
Yellow Creek near White River (Dctms)	09306255
White River below Boise Creek near Rangely (Dctms)	09306290
White River below Taylor Draw Reservoir above Rangely (ctm)	09306305
SAN JUAN RIVER BASIN	
San Juan River at Pagosa Springs (D)	09342500
San Juan River near Carracas (D)	09346400
Piedra River near Arboles (D)	09349800
Los Pinos River:	
Vallecito Creek near Bayfield (D)	09352900
Vallecito Reservoir near Bayfield (e)	09353000
Los Pinos River near Ignacio (D)	09353800
Los Pinos River at La Boca (D)	09354500
Spring Creek at La Boca (D)	09355000
Animas River at Silverton (D)	09358000
Cement Creek at Silverton (D)	09358550
Mineral Creek at Silverton (D)	09359010
Animas River below Silverton (Dct)	09359020
Animas River at Durango (D)	09361500
Florida River:	
Lemon Reservoir near Durango (e)	09362800
La Plata River at Hesperus (D*)	09365500
La Plata River at Colorado-New Mexico State line (D*)	09366500
Mancos River near Towaoc (D)	09371000
McElmo Creek:	
Mud Creek at Highway 32 near Cortez (DctCT)	09371492
McElmo Creek above Trail Canyon near Cortez (DctCT)	09371520
McElmo Creek near Colorado-Utah State line (Dct)	09372000

Station number (Link to NWISWeb)

### OTHER HYDROLOGIC STATIONS FOR WHICH RECORDS WERE COLLECTED IN WATER YEAR 2004

#### Discharge at partial-record stations and miscellaneous sites

Low-flow partial-record stations	
Moniger Creek near Minturn	09058900
Crest-stage partial-record stations	
South Platte River Basin:	
Lee Gulch at Littleton	06709740
Dutch Creek at Platte Canyon Drive, near Littleton	06709910
Little Dry Creek near Arapahoe Road	06711515
Willow Creek at Dry Creek Road, near Englewood	06711535
Little Dry Creek above Englewood	06711555
Harvard Gulch at Colorado Blvd. at Denver	06711570
Harvard Gulch at Harvard Park at Denver	06711575
Weir Gulch upstream from 1st Avenue, at Denver	06711618
Dry Gulch at Denver	06711770
Lakewood Gulch at Denver	06711780
Westerly Creek at Aurora	06714260
Lena Gulch at Lakewood	06719560
Little Dry Creek at Westminster	06719840
Arkansas River Basin:	
Red Creek below Sullivan Park at Fort Carson	07099080
Kettle Creek above U.S. Air Force Academy	07103960
Cottonwood Creek at Cowpoke Road at Colorado Springs	07103977
Cottonwood Creek Tributary above Rangewood Drive at Colorado Springs	07103985
North Rockrimmon Creek above Delmonico Drive at Colorado Springs	07104050
Bear Creek above 8th Street at Colorado Springs	384909104504401
Big Arroyo near Thatcher	07120620
Big Sandy Creek above Amity Canal Diversion near Kornman	07134000
Colorado River Basin:	
Moniger Creek near Minturn	09058900
Special study and miscellaneous sites	
East Fork Arkansas River at Highway 91	07079195
eteorological stations at miscellaneous sites	
Precipitation data at sites on Fort Carson Military Reservation	
MPRC Meteorological Station at Fort Carson	382731104473701
Range One Meteorological Station at Fort Carson	384339104461201
Rod and Gun Meteorological Station at Fort Carson	384053104492001
Sullivan Park Meteorological Station at Fort Carson	383159104540701
Young Hollow Meteorological Station at Fort Carson	383109104431301
Precipitation data at sites on Pinon Canyon Maneuver Site	
Bear Springs Hills Meteorological Station near Houghton	373232103555201
Brown Sheep Camp Meteorological Station near Tyrone	372319104073301
Burson Well Meteorological Station near Thatcher	373004104032001

Station number (Link to NWISWeb)

Cantonment Meteorological Station near cemetary at Simpson	372959104092201
Cantonment Windmill Meteorological Station near Tyrone	372532104093001
CIG Pipeline South Meteorological Station near Simpson	372721103595601
Gutierrez Windmill Meteorological Station near Model	372249103573302
Mincic Meteorological Station near Houghton	372701103514501
Rourke Meteorological Station near Higbee	373706103410701
Route Two Windmill Meteorological Station near Tyrone	372329104020501
Upper Bent Canyon Meteorological Station near Delhi	373823103465601
Upper Red Rock Canyon Meteorological Station near Houghton	373315103493101

#### **Precipitation gage near South Fork**

M-2 Million Raingage near South Fork 373758106364201

#### Meteorological stations in the Gunnison River Basin

Ironton Meteorological Station near Ouray	375546107412000
Governor Basin Meteorological Station near Telluride	375852107455200
Ouray Meteorological Station at Ouray	380102107402200
West Fork Dallas Creek Meteorological Station near Ridgway	380251107513000
Whitehouse Creek Meteorological Station near Ouray	380324107444500
Portland Meteorological Station near Ouray	380436107411500
Pleasant Valley Meteorological Station near Ridgway	380844107512200
Ridgway Meteorological Station at Ridgway	380916107452200
Dry Creek Meteorological Station near Ridgway	381001107412300
Ridgway Reservoir Meteorological Station near Ridgway	381422107453000

#### Miscellaneous water-quality data

insection cours water quality auto	
Big Thompson Project	
Alva B. Adams Tunnel at East Portal, near Estes Park	09013000
Big Thompson River at Estes Park	06733000
Big Thompson River below Sanitation Outflow above Lake Estes	402245105302300
Big Thompson River near Estes Park	06735500
Olympus Tunnel at Lake Estes	06734900
Big Thompson River at Whispering Pines near Estes Park	402249105282000
Big Thompson River above North Fork Big Thompson River at Drake	402554105202100
North Fork Big Thompson River at Drake	06736000
Big Thompson River above Dillie Tunnel near Drake	06736700
Hansen Canal below Flatiron Reservoir near Loveland	402227105134700
Hansen Canal below Trifurcation near Loveland	402524105133300
Hansen Canal above Tunnel No. 5 near Loveland	403020105114700
Hansen Canal above Greeley Filtration Plant near Laporte	403814105111800
Big Thompson River below Big Thompson Power Plant near Loveland	402518105131300
Big Thompson River below Sulzer Gulch near Loveland	402533105124300
Big Thompson River at Loveland	06741510
Big Thompson River below Loveland	06741520
Big Thompson River at I-25 near Loveland	06741530

### **Three Lakes Water-Quality Project**

Colorado River near Grand Lake	09011000
North Inlet at Grand Lake	09012500

Station number (Link to NWISWeb)

### Three Lakes Water-Quality Project—Continued

East Inlet near Grand Lake	09013500
Grand Lake at Grand Lake	09013900
Grand Lake Outlet at Grand Lake	09014000
Shadow Mountain Lake near Grand Lake	09014500
Arapahoe Creek at Monarch Lake Outlet	09016500
Stillwater Creek above Lake Granby, near Grand Lake	09018000
Granby Pump Canal near Grand Lake	09018300
Lake Granby near Granby	09018500
Colorado River below Lake Granby	09019000

#### Station records, ground-water levels in Pueblo County

Pueblo Drought Well 382323104200701

#### Quality of ground-water in El Paso County

Fountain No. 3	384056104415601
Fountain No. 2	384108104420701
Fountain No. 1	384122104421401
Widefield No. 5	384323104432201
Sweet Water No. 1	384345104241401
Widefield No. 4	384407104434801
U-14	384433104440702
Security No. 2	384458104442601
Venetucci No. 3	384535104450801
U-9	384604104451502
Security No. 14	384610104453501
Stratmoor Hills No. 4	384617104455901
Mars Gas	384639104461401
TH-18	384653104451901
Barnes Well	384718104463701

#### Water rights diversion ditches on Fort Carson Military Reservation

Lytle Ditch at Fort Carson	383619104520401
Strobel Ditch from Turkey Creek at Fort Carson	383637104531301
Merriams Little Fountain Ditch at Fort Carson	383944104474201
Merriams Rock Creek Ditch at Fort Carson	384037104472001
Ripley Ditch from Little Fountain Creek at Fort Carson	384047104510301
Womack Ditch from Little Fountain Creek at Fort Carson	384048104504901
Gale Ditch from Rock Creek near Fort Carson	384220104503701

#### INTRODUCTION

The Water-Resources Discipline of the U.S. Geological Survey, in cooperation with State agencies, obtains a large amount of data pertaining to the water resources of Colorado each water year. These data, accumulated during many water years, constitute a valuable database for developing an improved understanding of the water resources of the State. To make these data readily available to interested parties outside the U.S. Geological Survey, the data are published annually in the report series entitled "Water Resources Data—Colorado."

This year's report includes records on surface water in the State. Specifically, it contains: discharge records for 312 gaging stations, stage and contents of 1 lake and reservoir, discharge measurements for 1 partial-record low-flow station and 1 miscellaneous site, and peak-flow information for 22 crest-stage partial-record stations. Three pertinent stations operated by bordering states, and 34 stations operated by the Colorado Division of Water Resources are included in this report. Locations of lake and surface-water stations and surface-water-quality stations in the Colorado Data Program are shown in figure 1 and locations of crest-stage partial-record stations are shown in figure 2. The data in this report represent that part of the National Water Information System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Colorado.

Prior to introduction of this series and for several water years concurrent with it, water-resources data for Colorado were published in U.S. Geological Survey Water-Supply Papers. Data on stream discharge and stage and on lake or reservoir contents and stage, through September 1960, were published annually under the title "Surface-water Supply of the United States," Parts 6B, 7, 8, and 9. For the 1961 through 1970 water years, the data were published in two 5-year reports. Data on chemical quality, temperature, and suspended sediment for the

1941 through 1970 water years were published annually under the title "Quality of Surface Waters of the United States." Data on ground-water levels for the 1935 through 1955 water years were published annually under the title "Water Levels and Artesian Pressures in Observation Wells in the United States." For the 1956 through 1974 water years the data were published in four 5-year reports under the title "Ground-Water Levels in the United States." Water-supply papers may be purchased from the U.S. Geological Survey, Books and Open-File Reports, Federal Center, Building 810, Box 25425, Denver, CO 80225, or many of these water-supply papers (and the reports mentioned below) may be accessed from <a href="http://infotrek.er.usgs.gov/pubs/">http://infotrek.er.usgs.gov/pubs/</a>

For water years 1961 through 1970, surface-water data were released by the Survey in annual reports on a State-boundary basis. Surface-water-quality records for water years 1964 through 1970 were similarly released either in separate reports or in conjunction with surface-water records.

Beginning with the 1971 water year, water data on surface-water, water quality, and ground water are published in official Survey reports on a State-boundary basis. These official Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report CO-04-1." These water-data reports are also available for sale, in paper copy or electronic media, from the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161, or online at: <a href="http://www.ntis.gov/">http://www.ntis.gov/</a>

Additional information for ordering specific reports may be obtained from the Director of the USGS Colorado Water Science Center at the address given on the back of the title page or by telephone, (303) 236–4882.

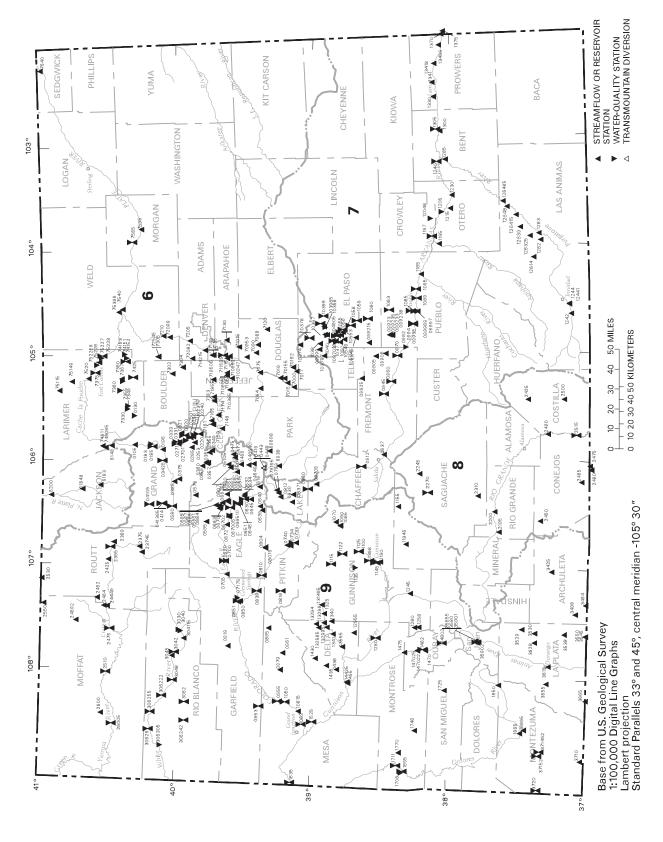


Figure 1. Map showing locations of lake and surface-water stations and surface-water-quality stations in the Colorado Data Program.

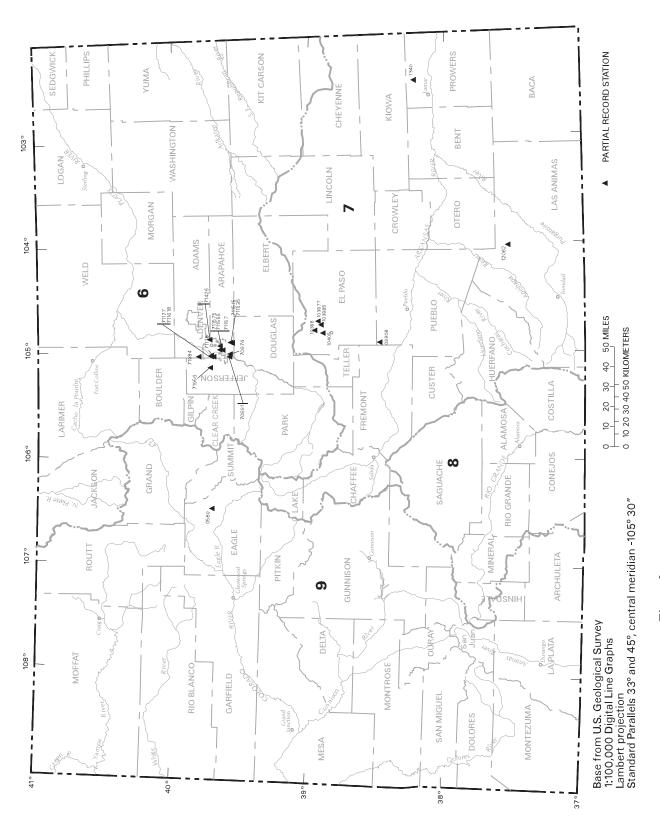


Figure 2. Map showing locations of crest-stage partial-record stations in Colorado.

#### **COOPERATION**

The U.S. Geological Survey and organizations in the State of Colorado have had cooperative agreements for the systematic collection of surface-water records since 1895 and for water-quality records since 1941. Organizations that supported data-collection activities through cooperative agreements with the Survey during the 2004 water year are:

Arapahoe County Water and Wastewater Authority.

Arkansas River Compact Administration.

Centennial Water and Sanitation District.

Cherokee Metropolitan District.

City and County of Denver, Board of Water Commissioners.

City of Aurora.

City of Black Hawk.

City of Boulder.

City of Brush.

City and County of Broomfield.

City of Colorado Springs.

City of Craig.

City of Englewood.

City of Fort Collins.

City of Fort Morgan.

City of Glendale.

City of Golden.

City of Gunnison.

City of Idaho Springs.

City of Lakewood.

City of Longmont.

City of Louisville.

City of Loveland.

City of Pueblo.

City of Westminster.

Clear Creek Board of County Commissioners.

Colorado Department of Public Health and Environment.

Colorado Division of Parks and Outdoor Recreation.

Colorado Division of Water Resources.

Colorado River Water Conservation District.

Colorado Springs Utilities.

Colorado Water Conservation Board.

Crested Butte South Metropolitan District.

Custer County.

Delta County Board of County Commissioners.

Douglas County.

Eagle County Board of Commissioners.

Eagle River Water and Sanitation District.

East Grand County Water-Quality Board.

El Paso County.

Evergreen Metropolitan District.

Fountain Valley Authority.

Gilpin County.

Grand County.

Hinsdale County.

Jefferson County Board of County Commissioners.

La Plata County.

Lower Fountain Water-Quality Management Association.

Meeker Sanitation District.

Metro Wastewater Reclamation District.

Mount Crested Butte Water and Sanitation District.

North Front Range Water Quality Planning Association.

Northern Colorado Water Conservancy District.

Plum Creek Wastewater Authority.

Pueblo Board of Water Works.

Pueblo County.

Pueblo West Metropolitan District.

Rio Blanco County Board of County Commissioners.

Rio Grande Water Conservation District.

Southeastern Colorado Water Conservancy District.

Southern Ute Indian Tribe.

Southwestern Colorado Water Conservation District.

St. Charles Mesa Water District.

Teller-Park Soil Conservation District.

Town of Basalt.

Town of Breckenridge.

Town of Collbran.

Town of Crested Butte.

Town of Georgetown.

Town of Hotchkiss.

Town of Meeker.

Town of Palmer Lake.

Town of Paonia.

Town of Rangely.

Town of Rico.

Trinchera Water Conservancy District.

Upper Arkansas River Water Conservancy District.

Upper Eagle Regional Water Authority.

Upper Gunnison River Water Conservancy District.

Upper Yampa Water Conservancy District.

Urban Drainage and Flood Control District.

Western State College of Colorado.

Wyoming State Engineer.

Yellowjacket Water Conservancy District.

Financial assistance was also provided by the U.S. Air Force Academy; U.S. Army, Corps of Engineers: U.S. Army; Bureau of Land Management; Bureau of Reclamation; National Park Service; U.S. Fish and Wildlife Service; and U.S. Forest Service. Organizations that supplied data are acknowledged in station descriptions.

#### DOWNSTREAM ORDER AND STATION NUMBER

Since October 1, 1950, hydrologic-station records in USGS reports have been listed in order of downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary entering between two main-stream stations is listed between those stations. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is located with respect to the stream to which it is immediately tributary is indicated by an indention in that list of stations in the front of this report. Each indentation represents one rank. This downstream order and system of indentation indicates which stations are on tributaries between any two stations and the rank of the tributary on which each station is located.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These station numbers are in the same downstream order used in this report. In assigning a station number, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list composed of both types of stations. Gaps are consecutive. The complete 8-digit (or 10-digit) number for each station such as 09004100, which appears just to the left of the station name, includes a 2-digit part number "09" plus the 6-digit (or 8-digit) downstream order number "004100." In areas of high station density, an additional two digits may be added to the station identification number to yield a 10-digit number. The stations are numbered in downstream order as described above between stations of consecutive 8-digit numbers.

#### NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The USGS well and miscellaneous site-numbering system is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The site number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, and the next 7 digits denote degrees, minutes, and seconds of longitude; the last 2 digits are a sequential number for wells within a 1-second grid. In the event that the latitude-longitude coordinates for a well and miscellaneous site are the same, a sequential number such as "01," "02," and so forth, would be assigned as one would for wells (see fig. 3). The 8-digit, downstream order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken

A local well number also may be provided for USGS wells. Local well numbers (also called land-net locations) are based on the U.S. Bureau of Land Management system of land subdivision and indicate the position of the well by township, range, section, and position within the section. The land-net system indicates location by a combination of letters and numbers as decribed in the following paragraphs.

The first letter of the local well number indicates the survey used to determine the well location. Colorado is governed by three surveys: the Sixth Principal Meridian Survey (S), the New Mexico Survey (N), and the Ute Survey (U). Costilla County is not included in any of the above surveys. For wells in Costilla County, the convention of the Costilla County Assessor is followed in which the northern part of the county is governed by the Sixth Principal Meridian Survey and the southern part of the county is governed by a local system called the Costilla Survey (C). A survey is subdivided into four quadrants

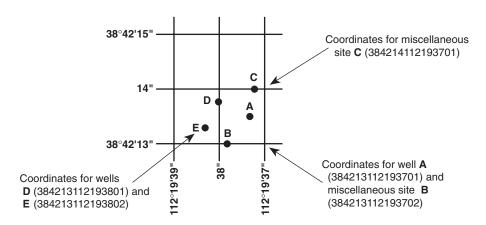


Figure 3. Site-numbering system for wells, springs, and miscellaneous sites.

formed by the intersection of the baseline and the principal meridian. The second letter of the local well number designates the survey quadrant: A indicates the northeast quadrant, B the northwest, C the southwest, and D the southeast. A quadrant is subdivided in the north-south direction every 6 miles by townships and is divided in the east-west direction every 6 miles by ranges. The 36-mi² area described by the township and range designations is subdivided into 1-mi² areas called sections, which are sequentially numbered.

Following the survey letter designations, a local well number contains three numbers followed by two to four letters. The first number indicates the township, the second number indicates the range, and the third number indicates the section in which the well is located. Letters following the township, range, and section numbers indicate the well location within a section. The section, which contains 640 acres, is subdivided into quarter sections. The 160-acre area is designated by the first letter following the section number as follows: A indicates the northeast quarter, B the northwest, C the southwest, and D the southeast. The guarter section is subdivided into quarter-quarter sections, and the 40-acre area is designated in the same manner by the second letter following the section number. The 10-acre area is designated in the same manner by the third letter following the section. If more than one well is located within the 10-acre tract, the wells are numbered sequentially in the order in which they were originally inventoried. The sequence number follows the three-letter quarter-quarter designation as it is necessary. For example, local well number SC-003-049-21 CCB2 indicates a well is located in the northwest quarter of the southwest quarter of the southwest quarter of section 21, township 3 south, range 49 west in the southwest quadrant of the Sixth Principal Meridian Survey and was the second well inventoried in the quarter-quarterquarter section.

### SPECIAL NETWORKS AND PROGRAMS

Hydrologic Benchmark Network is a network of 61 sites in small drainage basins in 39 States that was established in 1963 to provide consistent streamflow data representative of undeveloped watersheds nationwide, and from which data could be analyzed on a continuing basis for use in comparison and contrast with conditions observed in basins more obviously affected by human activities. At selected sites, water-quality information is being gathered on major ions and nutrients, primarily to assess the effects of acid deposition on stream chemistry. Additional information on the Hydrologic Benchmark Program may be accessed from <a href="http://water.usgs.gov/hbn/">http://water.usgs.gov/hbn/</a>.

#### National Stream-Quality Accounting Network

(NASQAN) is a network of sites used to monitor the water quality of large rivers within the Nation's largest river basins. From 1995 through 1999, a network of approximately 40 stations was operated in the Mississippi, Columbia, Colorado, and Rio Grande River basins. For the period 2000 through 2004, sampling was reduced to a few index stations on the Colorado and Columbia Rivers so that a network of 5 stations could be implemented on the Yukon River. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment (NAWQA) Program; (3) to characterize processes unique to large-river systems such as storage and re-mobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals. Additional information about the NASQAN Program may be accessed from http://water.usgs.gov/nasqan/.

The National Atmospheric Deposition Program/ National Trends Network (NADP/NTN) is a network of monitoring sites that provides continuous measurement and assessment of the chemical constituents in precipitation throughout the United States. As the lead Federal agency, the USGS works together with over 100 organizations to provide a long-term, spatial and temporal record of atmospheric deposition generated from this network of 250 precipitation-chemistry monitoring sites. The USGS supports 74 of these 250 sites. This longterm, nationally consistent monitoring program, coupled with ecosystem research, provides critical information toward a national scorecard to evaluate the effectiveness of ongoing and future regulations intended to reduce atmospheric emissions and subsequent impacts to the Nation's land and water resources. Reports and other information on the NADP/NTN Program, as well as data from the individual sites, may be accessed from http://bqs.usgs.gov/acidrain/.

The USGS National Water-Quality Assessment (NAWQA) Program is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation's ground- and surface-water resources; to provide an

improved understanding of the primary natural and human factors affecting these observed conditions and trends; and to provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 42 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents is measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for waterresources managers to use in making decisions and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and Federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of representatives from key Federal, State, and local water-resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semi-annually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities to collaborate efforts among the agencies. Additional information about the NAWQA Program may be accessed from <a href="http://water.usgs.gov/nawqa/">http://water.usgs.gov/nawqa/</a>.

The USGS National Streamflow Information Program (NSIP) is a long-term program with goals to provide framework streamflow data across the Nation. Included in the program are creation of a permanent Federally funded streamflow network, research on the nature of streamflow, regional assessments of streamflow data and databases, and upgrades in the streamflow information delivery systems. Additional information about NSIP may be accessed from <a href="http://water.usgs.gov/nsip/">http://water.usgs.gov/nsip/</a>.

### EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS

#### **Data Collection and Computation**

The base data collected at gaging stations (figs. 1 and 2) consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and volume of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily

flow or volume of water in storage. Records of stage are obtained from a water-stage recorder that is either downloaded electronically in the field to a laptop computer or similar device or is transmitted using telemetry such as GOES satellite, land-line or cellular-phone modems, or by radio transmission. Measurements of discharge are made with a current meter or acoustic Doppler current profiler, using the general methods adopted by the USGS. These methods are described in standard textbooks, USGS Water-Supply Paper 2175, and the Techniques of Water-Resources Investigations of the United States Geological Survey (TWRIs), Book 3, Chapters A1 through A19 and Book 8, Chapters A2 and B2, which may be accessed from <a href="http://water.usgs.gov/pubs/twri/">http://water.usgs.gov/pubs/twri/</a>. The methods are consistent with the American Society for Testing and Materials (ASTM) standards and generally follow the standards of the International Organization for Standardization (ISO).

For stream-gaging stations, discharge-rating tables for any stage are prepared from stage-discharge curves. If extensions to the rating curves are necessary to express discharge greater than measured, the extensions are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, or computation of flow over dams and weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharges are computed from the daily values. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features of the stream channel, the daily mean discharge is computed by the shifting-control method in which correction factors based on individual discharge measurements and notes by engineers and observers are used when applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the controlling section, the daily mean discharge is computed by the shifting-control method.

The stage-discharge relation at some stream-gaging stations is affected by backwater from reservoirs, tributary streams, or other sources. Such an occurrence necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage at some distance from the base gage.

An index velocity is measured using ultrasonic or acoustic instruments at some stream-gaging stations and this index velocity is used to calculate an average velocity for the flow in the stream. This average velocity along with a stage-area relation is then used to calculate average discharge.

At some stations, stage-discharge relation is affected by changing stage. At these stations, the rate of change in stage is used as a factor in computing discharge.

At some stream-gaging stations in the northern United States, the stage-discharge relation is affected by ice in the winter; therefore, computation of the discharge in the usual manner is impossible. Discharge for periods of ice effect is computed on the basis of gage-height record and occasional winter-discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge from other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the volume or contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly changes are computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys, the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some stream-gaging stations, periods of time occur when no gage-height record is obtained or the recorded gage height is faulty and cannot be used to compute daily discharge or contents. Such a situation can happen when the recorder stops or otherwise fails to operate properly, the intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records from other stations in the same or nearby basins. Likewise, lake or reservoir volumes may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

#### **Data Presentation**

The records published for each continuous-record surface-water discharge station (stream-gaging station) consist of five parts: (1) the station manuscript or description; (2) the data table of daily mean values of discharge for the current water year with summary data; (3) a tabular statistical summary of monthly mean flow data for a designated period, by water year; (4) a summary statistics table that includes statistical data of annual, daily, and instantaneous flows as well as data pertaining to annual runoff, 7-day low-flow minimums, and flow duration; and (5) a hydrograph of discharge.

#### **Station Manuscript**

The manuscript provides, under various headings, descriptive information, such as station location; period of record; historical extremes outside the period of record; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or lake content. Comments follow that clarify information presented under the various headings of the station description.

LOCATION.—Location information is obtained from the most accurate maps available. The location of the gaging station with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

DRAINAGE AREA.—Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

PERIOD OF RECORD.—This term indicates the time period for which records have been published for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not and whose location was such that its flow reasonably can be considered equivalent to flow at the present station.

REVISED RECORDS.—If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

GAGE.—The type of gage in current use, the datum of the current gage referred to a standard datum, and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.—All periods of estimated daily discharge either will be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily discharge table. (See section titled Identifying Estimated Daily Discharge.) Information is presented relative to the accuracy of the records, to special methods of computation, and to conditions that affect natural flow at the station. In addition, information may be presented pertaining to average discharge data for the period of record; to extremes data for the period of record and the current year; and, possibly, to other

pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, the outlet works and spillway, and the purpose and use of the reservoir.

COOPERATION.—Records provided by a cooperating organization or obtained for the USGS by a cooperating organization are identified here.

EXTREMES OUTSIDE PERIOD OF RECORD.— Information here documents major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the USGS.

REVISIONS.—Records are revised if errors in published records are discovered. Appropriate updates are made in the USGS distributed data system, NWIS, and subsequently to its Web-based National data system, NWISWeb (<a href="http://water.usgs.gov/nwis/nwis">http://water.usgs.gov/nwis/nwis</a>). Users are encouraged to obtain all required data from NWIS or NWISWeb to ensure that they have the most recent data updates. Updates to NWISWeb are made on an annual basis.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because no current or, possibly, future station manuscript would be published for these stations to document the revision in a REVISED RECORDS entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the USGS Colorado Water Science Center office (address given on the back of the title page of this report) to determine if the published records were revised after the station was discontinued. If, however, the data for a discontinued station were obtained by computer retrieval, the data would be current. Any published revision of data is always accompanied by revision of the corresponding data in computer storage.

Manuscript information for lake or reservoir stations differs from that for stream stations in the nature of the REMARKS and in the inclusion of a stage-capacity table when daily volumes are given.

### Peak Discharge Greater than Base Discharge

Tables of peak discharge above base discharge are included for some stations where secondary instantaneous peak discharge data are used in flood-frequency studies of highway and bridge design, flood-control structures, and other flood-related projects. The base discharge value is selected so an average of three peaks a year will be reported. This base discharge value has a recurrence interval of approximately 1.1 years or a 91-percent chance of exceedence in any 1 year.

#### **Data Table of Daily Mean Values**

The daily table of discharge records for stream-gaging stations gives mean discharge for each day of the water year. In the monthly summary for the table, the line headed TOTAL gives the sum of the daily figures for each month; the line headed MEAN gives the arithmetic average flow in cubic feet per second for the month; and the lines headed MAX and MIN give the maximum and minimum daily mean discharges, respectively, for each month. Discharge for the month is expressed in cubic feet per second per square mile (line headed CFSM); or in inches (line headed IN); or in acre-feet (line headed AC-FT). Values for cubic feet per second per square mile and runoff in inches or in acre-feet may be omitted if extensive regulation or diversion is in effect or if the drainage area includes large noncontributing areas. At some stations, monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversion data or reservoir volumes are given. These values are identified by a symbol and a corresponding footnote.

#### Statistics of Monthly Mean Data

A tabular summary of the mean (line headed MEAN), maximum (MAX), and minimum (MIN) of monthly mean flows for each month for a designated period is provided below the mean values table. The water years of the first occurrence of the maximum and minimum monthly flows are provided immediately below those values. The designated period will be expressed as FOR WATER YEARS \_\_-, BY WATER YEAR (WY), and will list the first and last water years of the range of years selected from the PERIOD OF RECORD paragraph in the station manuscript. The designated period will consist of all of the station record within the specified water years, including complete months of record for partial water years, and may coincide with the period of record for the station. The water years for which the statistics are computed are consecutive, unless a break in the station record is indicated in the manuscript.

### **Summary Statistics**

A table titled SUMMARY STATISTICS follows the statistics of monthly mean data tabulation. This table consists of four columns with the first column containing the line headings of the statistics being reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current water year but also for the previous calendar year and for a designated period, as appropriate. The designated period selected, WATER YEARS \_\_-\_, will consist of all

of the station records within the specified water years, including complete months of record for partial water years, and may coincide with the period of record for the station. The water years for which the statistics are computed are consecutive, unless a break in the station record is indicated in the manuscript. All of the calculations for the statistical characteristics designated ANNUAL (see line headings below), except for the ANNUAL 7-DAY MINIMUM statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated using partial water years.

The date or water year, as appropriate, of the first occurrence of each statistic reporting extreme values of discharge is provided adjacent to the statistic. Repeated occurrences may be noted in the REMARKS paragraph of the manuscript or in footnotes. Because the designated period may not be the same as the station period of record published in the manuscript, occasionally the dates of occurrence listed for the daily and instantaneous extremes in the designated-period column may not be within the selected water years listed in the heading. When the dates of occurrence do not fall within the selected water years listed in the heading, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration-curve statistics and runoff data also are given. Runoff data may be omitted if extensive regulation or diversion of flow is in effect in the drainage

The following summary statistics data are provided with each continuous record of discharge. Comments that follow clarify information presented under the various line headings of the SUMMARY STATISTICS table.

ANNUAL TOTAL.—The sum of the daily mean values of discharge for the year.

ANNUAL MEAN.—The arithmetic mean for the individual daily mean discharges for the year noted or for the designated period.

HIGHEST ANNUAL MEAN.—The maximum annual mean discharge occurring for the designated period.

LOWEST ANNUAL MEAN.—The minimum annual mean discharge occurring for the designated period.

HIGHEST DAILY MEAN.—The maximum daily mean discharge for the year or for the designated period.

LOWEST DAILY MEAN.—The minimum daily mean discharge for the year or for the designated period.

ANNUAL 7-DAY MINIMUM.—The lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1–March 31). The date shown in the summary

statistics table is the initial date of the 7-day period. This value should not be confused with the 7-day 10-year low-flow statistic.

MAXIMUM PEAK FLOW.—The maximum instantaneous peak discharge occurring for the water year or designated period. Occasionally the maximum flow for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak flow is given in the table and the maximum flow may be reported in a footnote or in the REMARKS paragraph in the manuscript.

MAXIMUM PEAK STAGE.—The maximum instantaneous peak stage occurring for the water year or designated period. Occasionally the maximum stage for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak stage is given in the table and the maximum stage may be reported in the REMARKS paragraph in the manuscript or in a footnote. If the dates of occurrence of the maximum peak stage and maximum peak flow are different, the REMARKS paragraph in the manuscript or a footnote may be used to provide further information.

INSTANTANEOUS LOW FLOW.—The minimum instantaneous discharge occurring for the water year or for the designated period.

ANNUAL RUNOFF.—Indicates the total quantity of water in runoff for a drainage area for the year. Data reports may use any of the following units of measurement in presenting annual runoff data:

Acre-foot (AC-FT) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Cubic feet per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area.

Inches (INCHES) indicate the depth to which the drainage area would be covered if all of the runoff for a given time period were uniformly distributed on it.

10 PERCENT EXCEEDS.—The discharge that has been exceeded 10 percent of the time for the designated period.

50 PERCENT EXCEEDS.—The discharge that has been exceeded 50 percent of the time for the designated period.

90 PERCENT EXCEEDS.—The discharge that has been exceeded 90 percent of the time for the designated period.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two tables. The first table lists annual maximum stage and discharge at crest-stage stations, and the second table lists discharge measurements at low-flow partial-record stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements are often made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for a special reason are called measurements at miscellaneous sites.

#### **Identifying Estimated Daily Discharge**

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified. This identification is shown either by flagging individual daily values with the letter "e" and noting in a table footnote, "e Estimated," or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

# Accuracy of Field Data and Computed Results

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretations of records.

The degree of accuracy of the records is stated in the REMARKS in the station description. "Excellent" indicates that about 95 percent of the daily discharges are within 5 percent of the true value; "good" within 10 percent; and "fair," within 15 percent. "Poor" indicates that daily discharges have less than "fair" accuracy. Different accuracies may be attributed to different parts of a given record.

Values of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 ft<sup>3</sup>/s; to the nearest tenths between 1.0 and 10 ft<sup>3</sup>/s; to whole numbers between 10 and 1,000 ft<sup>3</sup>/s; and to 3 significant figures above 1,000 ft<sup>3</sup>/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharge values listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, values of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

#### Other Data Records Available

Information of a more detailed nature than that published for most of the stream-gaging stations such as discharge measurements, gage-height records, and rating tables is available from the USGS Colorado Water Science Center. Also, most stream-gaging station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the USGS Colorado Water Science Center (see address that is shown on the back of the title page of this report).

### EXPLANATION OF PRECIPITATION RECORDS

### **Data Collection and Computation**

Rainfall data generally are collected using electronic data loggers that measure the rainfall in 0.01-inch increments every 15 minutes using either a tipping-bucket rain gage or a collection well gage. Twenty-four hour rainfall totals are tabulated and presented. A 24-hour period extends from just past midnight of the previous day to midnight of the current day. Snowfall-affected data can result during cold weather when snow fills the rain-gage funnel and then melts as temperatures rise. Snowfall-affected data are subject to errors. Missing values are indicated by this symbol "---" in the table.

#### **Data Presentation**

Precipitation records collected at surface-water gaging stations are identified with the same station number and name as the stream-gaging station. Where a surface-water daily-record station is not available, the precipitation record is published with its own name and latitude-longitude identification number.

Information pertinent to the history of a precipitation station is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, period of record, and general remarks.

The following information is provided with each precipitation station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.—See Data Presentation in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

PERIOD OF RECORD.—See Data Presentation in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

INSTRUMENTATION.—Information on the type of rainfall collection system is given.

REMARKS.—Remarks provide added information pertinent to the collection, analysis, or computation of records.

# EXPLANATION OF WATER-QUALITY RECORDS

### **Collection and Examination of Data**

Surface-water samples for analysis usually are collected at or near stream-gaging stations. The quality-ofwater records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of daily record for parameters that are measured on a daily basis (specific conductance, water temperature, sediment discharge, and so forth); extremes for the current year; and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, sampling date, or other pertinent data are given in the table containing the chemical analyses of the ground water.

### **Water Analysis**

Most of the methods used for collecting and analyzing water samples are described in the TWRIs, which may be accessed from <a href="http://water.usgs.gov/pubs/twri/">http://water.usgs.gov/pubs/twri/</a>.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross-section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled at several verticals to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum and minimum values (and sometimes mean or median values) for each constituent measured, and are based on 15-minute or 1-hour intervals of recorded data beginning at 0000 hours and ending at 2400 hours for the day of record.

### SURFACE-WATER-QUALITY RECORDS

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because discharge data are useful in the interpretation of surface-water quality. Records of surface-water quality in this report involve a variety of types of data and measurement frequencies.

#### Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A *continuous-record station* is a site where data are collected on a regularly scheduled basis. Frequency may be one or more times daily, weekly, monthly, or quarterly. A *partial-record station* is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A *miscellaneous sampling site* is a location other than a continuous- or partial-record station, where samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between *continuous records* as used in this report and *continuous recordings* that refer to a continuous graph or a series of discrete values recorded at short intervals. Some

records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently. Locations of stations for which records on the quality of surface water were collected in water year 2004 are shown in figure 1.

### **Accuracy of the Records**

One of four accuracy classifications is applied for measured physical properties at continuous-record stations on a scale ranging from poor to excellent. The accuracy rating is based on data values recorded before any shifts or corrections are made. Additional consideration also is given to the amount of publishable record and to the amount of data that have been corrected or shifted. are taken. To assure that measurements made in the laboratory also represent the naturally occurring water, carefully prescribed procedures must be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for on-site measurements and for collecting, treating, and shipping samples are given in TWRIs Book 1, Chapter D2; Book 3, Chapters A1, A3, and A4; and Book 9, Chapters A1–A9. Most of the methods used for collecting and analyzing water samples are described in the TWRIs, which may be accessed from http://water.usgs.gov/pubs/twri/. Also, detailed information on collecting, treating, and shipping samples can be obtained from the USGS Colorado Water Science Center (see address that is shown on the back of title page in this report).

Rating classifications for continuous water-quality records

[ $\leq$ , less than or equal to;  $\pm$ , plus or minus value shown;  $^{\circ}$ C, degree Celsius; >, greater than; %, percent; mg/L, milligram per liter; pH unit, standard pH unit]

Measured	Rating			
physical property	Excellent	Good	Fair	Poor
Water temperature	≤±0.2 °C	$> \pm 0.2$ to 0.5 °C	$> \pm 0.5$ to 0.8 °C	>±0.8 °C
Specific conductance	≤±3%	$> \pm 3$ to 10%	$> \pm 10$ to 15%	$> \pm 15\%$
Dissolved oxygen	$\leq \pm 0.3$ mg/L	$> \pm 0.3$ to 0.5 mg/L	$> \pm 0.5$ to 0.8 mg/L	$> \pm 0.8$ mg/L
pН	$\leq \pm 0.2$ unit	$> \pm 0.2$ to 0.5 unit	$> \pm 0.5$ to 0.8 unit	$> \pm 0.8$ unit
Turbidity	≤±5%	$> \pm 5$ to 10%	$> \pm 10$ to 15%	$> \pm 15\%$

#### **Arrangement of Records**

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream-order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites.

### On-Site Measurements and Sample Collection

In obtaining water-quality data, a major concern is assuring that the data obtained represent the naturally occurring quality of the water. To ensure this, certain measurements, such as water temperature, pH, and dissolved oxygen, must be made on site when the samples

### **Water Temperature**

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at the time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by wasteheat discharges.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published. Water temperatures measured at the time of water-discharge measurements are on file in the USGS Colorado Water Science Center.

#### **Sediment**

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross section.

During periods of rapidly changing flow or rapidly changing concentration, samples may be collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided-day method. For periods when no samples were collected, daily discharges of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples are collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observation, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of suspended-sediment discharge, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included for some stations.

#### **Laboratory Measurements**

Samples for biochemical oxygen demand (BOD) and indicator bacteria are analyzed locally. All other samples are analyzed in the USGS laboratory in Lakewood, Colorado, unless otherwise noted. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chapter C1. Methods used by the USGS laboratories are given in TWRIs, Book 1, Chapter D2; and Book 5, Chapters A1, A3, and A4. The TWRI publications may be accessed from <a href="http://water.usgs.gov/pubs/twri/">http://water.usgs.gov/pubs/twri/</a>. These methods are consistent with ASTM standards and generally follow ISO standards.

#### **Data Presentation**

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available,

instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Tables of chemical, physical, biological, radiochemical data, and so forth, obtained at a frequency less than daily are presented first. Tables of "daily values" of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.—See Data Presentation information in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

DRAINAGE AREA.—See Data Presentation information in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

PERIOD OF RECORD.—This indicates the time periods for which published water-quality records for the station are available. The periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the parameters individually.

INSTRUMENTATION.—Information on instrumentation is given only if a water-quality monitor temperature record, sediment pumping sampler, or other sampling device is in operation at a station.

REMARKS.—Remarks provide added information pertinent to the collection, analysis, or computation of the records.

COOPERATION.—Records provided by a cooperating organization or obtained for the USGS by a cooperating organization are identified here.

EXTREMES.—Maximums and minimums are given only for parameters measured daily or more frequently. For parameters measured weekly or less frequently, true maximums or minimums may not have been obtained. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.—Records are revised if errors in published water-quality records are discovered. Appropriate updates are made in the USGS distributed data system, NWIS, and subsequently to its Web-based National data system, NWISWeb (<a href="http://waterdata.usgs.gov/nwis">http://waterdata.usgs.gov/nwis</a>).

Users of USGS water-quality data are encouraged to obtain all required data from NWIS or NWISWeb to ensure that they have the most recent updates. Updates to the NWISWeb are made on an annual basis.

The surface-water-quality records for partial-record stations and miscellaneous sampling sites are published in separate tables following the table of discharge measurements at miscellaneous sites. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

#### **Remark Codes**

The following remark codes may appear with the waterquality data in this section:

Printed Output	Remark
Е	Value is estimated.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
M	Presence of material verified, but not quantified.
N	Presumptive evidence of presence of material.
U	Material specifically analyzed for, but not detected.
A	Value is an average.
V	Analyte was detected in both the environmental sample and the associated blanks.
S	Most probable value.

#### **Water-Quality Control Data**

The USGS National Water Quality Laboratory collects quality-control data on a continuing basis to evaluate selected analytical methods to determine long-term method detection levels (LT-MDLs) and laboratory reporting levels (LRLs). These values are re-evaluated each year on the basis of the most recent quality-control data and, consequently, may change from year to year.

This reporting procedure limits the occurrence of false positive error. Falsely reporting a concentration greater than the LT-MDL for a sample in which the analyte is not present is 1 percent or less. Application of the LRL limits the occurrence of false negative error. The chance of falsely reporting a non-detection for a sample in which the analyte is present at a concentration equal to or greater than the LRL is 1 percent or less.

Accordingly, concentrations are reported as less than LRL for samples in which the analyte was either not detected or did not pass identification. Analytes detected

at concentrations between the LT-MDL and the LRL and that pass identification criteria are estimated. Estimated concentrations will be noted with a remark code of "E." These data should be used with the understanding that their uncertainty is greater than that of data reported without the E remark code.

Data generated from quality-control (QC) samples are a requisite for evaluating the quality of the sampling and processing techniques as well as data from the actual samples themselves. Without QC data, environmental sample data cannot be adequately interpreted because the errors associated with the sample data are unknown. The various types of QC samples collected by this USGS Water Science Center office are described in the following section. Procedures have been established for the storage of water-quality-control data within the USGS. These procedures allow for storage of all derived QC data and are identified so that they can be related to corresponding environmental samples. These data are not presented in this report but are available from the USGS Colorado Water Science Center.

#### **Blank Samples**

Blank samples are collected and analyzed to ensure that environmental samples have not been contaminated in the overall data-collection process. The blank solution used to develop specific types of blank samples is a solution that is free of the analytes of interest. Any measured value signal in a blank sample for an analyte (a specific component measured in a chemical analysis) that was absent in the blank solution is believed to be due to contamination. Many types of blank samples are possible; each is designed to segregate a different part of the overall data-collection process. The types of blank samples collected in this USGS Water Science Center are:

**Field blank**—A blank solution that is subjected to all aspects of sample collection, field processing preservation, transportation, and laboratory handling as an environmental sample.

**Trip blank**—A blank solution that is put in the same type of bottle used for an environmental sample and kept with the set of sample bottles before and after sample collection.

**Equipment blank**—A blank solution that is processed through all equipment used for collecting and processing an environmental sample (similar to a field blank but normally done in the more controlled conditions of the office).

**Sampler blank**—A blank solution that is poured or pumped through the same field sampler used for collecting an environmental sample.

**Filter blank**—A blank solution that is filtered in the same manner and through the same filter apparatus used for an environmental sample.

**Splitter blank**—A blank solution that is mixed and separated using a field splitter in the same manner and through the same apparatus used for an environmental sample.

**Preservation blank**—A blank solution that is treated with the sampler preservatives used for an environmental sample.

### **Reference Samples**

Reference material is a solution or material prepared by a laboratory. The reference material composition is certified for one or more properties so that it can be used to assess a measurement method. Samples of reference material are submitted for analysis to ensure that an analytical method is accurate for the known properties of the reference material. Generally, the selected reference material properties are similar to the environmental sample properties.

### **Replicate Samples**

Replicate samples are a set of environmental samples collected in a manner such that the samples are thought to be essentially identical in composition. Replicate is the general case for which a duplicate is the special case consisting of two samples. Replicate samples are collected and analyzed to establish the amount of variability in the data contributed by some part of the collection and analytical process. Many types of replicate samples are possible, each of which may yield slightly different results in a dynamic hydrologic setting, such as a flowing stream. The types of replicate samples collected in this USGS Water Science Center are:

Concurrent samples—A type of replicate sample in which the samples are collected simultaneously with two or more samplers or by using one sampler and alternating the collection of samples into two or more compositing containers.

**Sequential samples**—A type of replicate sample in which the samples are collected one after the other, typically over a short time.

**Split sample**—A type of replicate sample in which a sample is split into subsamples, each subsample contemporaneous in time and space.

### **Spike Samples**

Spike samples are samples to which known quantities of a solution with one or more well-established analyte concentrations have been added. These samples are analyzed to determine the extent of matrix interference or degradation on the analyte concentration during sample processing and analysis.

### EXPLANATION OF GROUND-WATER-LEVEL RECORDS

Generally, only ground-water-level data from selected wells with continuous recorders from a basic network of observation wells are published in this report. This basic network contains observation wells located so that the most significant data are obtained from the fewest wells in the most important aquifers.

#### **Site Identification Numbers**

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is produced for local needs. (See "Numbering System for Wells and Miscellaneous Sites" in this report for a detailed explanation.)

### **Data Collection and Computation**

Measurements are made in many types of wells, under varying conditions of access and at different temperatures; hence, neither the method of measurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

Most methods for collecting and analyzing water samples are described in the TWRIs referred to in the On-site Measurements and Sample Collection and the Laboratory Measurements sections in this report. In addition, TWRI Book 1, Chapter D2, describes guidelines for the collection and field analysis of ground-water samples for selected unstable constituents. Procedures for on-site measurements and for collecting, treating, and shipping samples are given in TWRIs Book 1, Chapter D2; Book 3, Chapters A1, A3, and A4; and Book 9, Chapters A1 through A9. The TWRI publications may be accessed from <a href="http://water.usgs.gov/pubs/twri/">http://water.usgs.gov/pubs/twri/</a>. The values in this report represent water-quality conditions at the time of sampling, as much as possible, and that are consistent with available sampling techniques and methods of analysis. These methods are consistent with ASTM standards and generally follow ISO standards. Trained personnel collected all samples. The wells sampled were pumped long

enough to ensure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

Water-level measurements in this report are given in feet with reference to land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the elevation of the land-surface datum above sea level is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (EOM).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth of water of several hundred feet, the error in determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given only to a tenth of a foot or a larger unit.

#### **Data Presentation**

Water-level data are presented in alphabetical order by county. The primary identification number for a given well is the 15-digit site identification number that appears in the upper left corner of the table. The secondary identification number is the local or county well number.

Each well record consists of three parts: the well description, the data table of water levels observed during the water year, and, for most wells, a hydrograph following the data table. Well descriptions are presented in the headings preceding the tabular data.

The following comments clarify information presented in these various headings.

LOCATION.—This paragraph follows the well-identification number and reports the hydrologic-unit number and a geographic point of reference. Latitudes and longitudes used in this report are reported as North American Datum of 1927 unless otherwise specified.

AQUIFER.—This entry designates by name and geologic age the aquifer that the well taps.

WELL CHARACTERISTICS.—This entry describes the well in terms of depth, casing diameter and depth or screened interval, method of construction, use, and changes since construction. INSTRUMENTATION.—This paragraph provides information on both the frequency of measurement and the collection method used, allowing the user to better evaluate the reported water-level extremes by knowing whether they are based on continuous, monthly, or some other frequency of measurement.

DATUM.—This entry describes both the measuring point and the land-surface elevation at the well. The altitude of the land-surface datum is described in feet above the altitude datum; it is reported with a precision depending on the method of determination. The measuring point is described physically (such as top of casing, top of instrument shelf, and so forth), and in relation to land surface (such as 1.3 ft above land-surface datum). The elevation of the land-surface datum is described in feet above National Geodetic Vertical Datum of 1929 (NGVD 29); it is reported with a precision depending on the method of determination.

REMARKS.—This entry describes factors that may influence the water level in a well or the measurement of the water level, when various methods of measurement were begun, and the network (climatic, terrane, local, or areal effects) or the special project to which the well belongs.

PERIOD OF RECORD.—This entry indicates the time period for which records are published for the well, the month and year at the start of publication of water-level records by the USGS, and the words "to current year" if the records are to be continued into the following year. Time periods for which water-level records are available, but are not published by the USGS, may be noted.

EXTREMES FOR PERIOD OF RECORD.—This entry contains the highest and lowest instantaneously recorded or measured water levels of the period of published record, with respect to land-surface datum or sea level, and the dates of occurrence.

### **Water-Level Tables**

A table of water levels follows the well description for each well. Water-level measurements in this report are given in feet with reference to either sea level or landsurface datum (lsd). Missing records are indicated by dashes in place of the water-level value.

For wells not equipped with recorders, water-level measurements were obtained periodically by steel or electric tape. Tables of periodic water-level measurements in these wells show the date of measurement and the measured water-level value.

#### **Hydrographs**

Hydrographs are a graphic display of water-level fluctuations over a period of time. In this report, current water year and, when appropriate, period-of-record hydrographs are shown. Hydrographs that display periodic water-level measurements show points that may be connected with a dashed line from one measurement to the next. Hydrographs that display recorder data show a solid line representing the mean water level recorded for each day. Missing data are indicated by a blank space or break in a hydrograph. Missing data may occur as a result of recorder malfunctions, battery failures, or mechanical problems related to the response of the recorder's float mechanism to water-level fluctuations in a well.

### **GROUND-WATER-QUALITY DATA**

#### **Data Collection and Computation**

The ground-water-quality data in this report were obtained as a part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some wells within a county but not for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality Statewide.

Most methods for collecting and analyzing water samples are described in the TWRIs, which may be accessed from <a href="http://water.usgs.gov/pubs/twri/">http://water.usgs.gov/pubs/twri/</a>. Procedures for on-site measurements and for collecting, treating, and shipping samples are given in TWRIs, Book 1, Chapter D2; Book 5, Chapters A1, A3, and A4; and Book 9, Chapters A1–A6. Also, detailed information on collecting, treating, and shipping samples may be obtained from the USGS Colorado Water Science Center (see address shown on back of title page in this report).

### **Laboratory Measurements**

Analysis for sulfide and measurement of alkalinity, pH, water temperature, specific conductance, and dissolved oxygen are performed on site. All other sample analyses are performed at the USGS laboratory in Lakewood, Colorado, unless otherwise noted. Methods used by the USGS laboratory are given in TWRIs, Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, and A4, which may be accessed from <a href="http://water.usgs.gov/pubs/twri/">http://water.usgs.gov/pubs/twri/</a>.

#### ACCESS TO USGS WATER DATA

The USGS provides near real-time stage and discharge data for many of the gaging stations equipped with the necessary telemetry and historic daily-mean and peak-flow discharge data for most current or discontinued gaging stations through the World Wide Web (WWW). These data may be accessed from <a href="http://water.usgs.gov">http://water.usgs.gov</a>.

Water-quality data and ground-water data also are available through the WWW. In addition, data can be provided in various machine-readable formats on various media. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each USGS Water Science Center (See address that is shown on the back of the title page of this report.)

### **DEFINITION OF TERMS**

Specialized technical terms related to stream flow, water-quality, and other hydrologic data, as used in this report, may be accessed from <a href="http://water.usgs.gov/ADR\_Defs\_2004.pdf">http://water.usgs.gov/ADR\_Defs\_2004.pdf</a>. Terms such as algae, water level, and precipitation are used in their common everyday meanings, definitions of which are given in standard dictionaries. Not all terms defined in this alphabetical list apply to every State. See also table for converting English units to International System (SI) Units. Other glossaries that also define water-related terms are accessible from <a href="http://water.usgs.gov/glossaries.html">http://water.usgs.gov/glossaries.html</a>.

The following continuous-record surface-water discharge or stage-only stations (gaging stations) in Colorado have been discontinued or converted to partial-record stations. Daily streamflow or stage records were collected and published for the period of record, expressed in water years, shown for each station.

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Colorado Creek near Spicer, CO	06611000	25.8	1950–55
Grizzly Creek near Spicer, CO	06611100	118	1976-80
Buffalo Creek near Hebron, CO	06611200	56.3	1976-80
Grizzly Creek near Hebron, CO	06611300	223	1976-80
Grizzly Creek near Walden, CO	06611500	258	1904–05,
•			1923,
			1926–47
Little Grizzly Creek near Coalmont, CO	06611700	10.1	1967-73
Little Grizzly Creek above Coalmont, CO	06611800	35.4	1976-80
Little Grizzly Creek above Hebron, CO	06611900	52.2	1976-80
Little Grizzly Creek near Hebron, CO	06612000	98.6	1904–05,
, , , , , , , , , , , , , , , , , , , ,			1931–45
Roaring Fork near Walden, CO	06612500	79.1	1904–05,
5 · · · · · · · · · · · · · · · · · · ·			1923–47
North Platte River near Walden, CO	06613000	469	1904–05,
			1923–47
North Fork North Platte River near Walden, CO	06614000	160	1923–28,
Thorner of the result of the r	3331.333	100	1936–45
South Fork Michigan River near Gould, CO	06615000	11.4	1950–58
Michigan River near Lindland, CO	06615500	60.9	1931–41
North Fork Michigan River near Gould, CO	06616000	20.5	1950–82
Michigan River at Walden, CO	06617100	182	1904–05,
The inguitation at malability 20	00017100	102	1923–47
Illinois Creek near Rand, CO	06617500	70.6	1931–40
Willow Creek near Rand, CO	06618000	55.9	1931–40
Illinois River below Ish Baldwin Ditch near Walden, CO	06618300	181	2002–2004
Illinois River below Potter Creek near Walden, CO	06618480	257	2001–2004
Illinois Creek at Walden, CO	06618500	259	1923–47
Michigan River near Cowdrey, CO	06619000	478	1904–05,
Thomgan Tuyor nom cowarely, co	33313333	.,,	1937–47
Canadian River near Lindland, CO	06619400	44.0	1978–83
Bush Draw near Walden, CO	06619415	4.10	1980–83
Williams Draw near Walden, CO	06619420	3.95	1979–83
Canadian River near Brownlee, CO	06619450	158	1978–83
Canadian River at Cowdrey, CO	06619500	181	1904–05,
Canadian raver at Cowardy, Co	00017300	101	1929–31,
			1937–47
Laramie River near Glendevey, CO	06657500	101	1904–05,
Enturnic rever near Grendevey, e.g.	00037300	101	1910–82
Middle Fork South Platte River above Fairplay, CO	06693980	62.2	1978–80
Middle Fork South Platte River near Hartsel, CO	06694100	250	1978–80
South Fork South Platte River above Fairplay, CO	06694400	50.3	1978–80
Fourmile Creek near Fairplay, CO	06694700	12.0	1978–80
Elevenmile Canyon Reservoir	06695500	963	1932–98
South Platte River near Lake George, CO	06696000	963	1929–98
Journal Lance Herrer Hear Dance George, CO	00070000	703	1727 70

The following continuous-record surface-water discharge or stage-only stations (gaging stations) in Colorado have been discontinued or converted to partial-record stations. Daily streamflow or stage records were collected and published for the period of record, expressed in water years, shown for each station.

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
South Platte River at Lake George, CO	06696200	1,084	1910–11, 1929
Tarryall Creek below Park Gulch near Como, CO	06697100	76.1	1997-2001
French Creek near Jefferson, CO	06697200	4.63	1986-90
Michigan Creek above Jefferson, CO	06697450	23.1	1978-86
Jefferson Creek near Jefferson, CO	06698000	11.8	1910–12,
			1978-86
Tarryall Creek near Jefferson, CO	06698500	183	1910–11,
			1912–17,
			1977-81
Rock Creek near Jefferson, CO	06699000	45.5	1986–90
Tarryall Creek below Rock Creek, near Jefferson, CO	06699005	230	1983–97
Tarryall Creek near Lake George, CO	06699500	434	1910–12,
			1925-55
Goose Creek above Cheesman Lake, CO	06700500	86.6	1899,
			1924–82
Cheesman Lake	06701000	1,752	1900–98
Spring Creek above mouth near South Platte, CO	06701970	9.79	1997-2003
South Platte River above North Fork at South Platte, CO	06702000	2,098	1905-12
North Fork South Platte River at Grant, CO	06702500	49.0	1910–17
Duck Creek near Grant, CO	06704500	7.78	1995–97
Geneva Creek at Grant, CO	06705500	74.6	1908-18
			1995–97
North Fork South Platte River below Geneva Creek, at Grant, CO	06706000	127	1908–13,
			1942–98
North Fork South Platte River at Pine, CO	06706500	374	1942–46
Miller Gulch near Buffalo Creek, CO	06706600	3.16	2000-2002
Buffalo Creek at mouth at Buffalo Creek, CO	06706800	47.4	1997-2003
North Fork South Platte River at South Platte, CO	06707000	479	1909–10,
			1913-82
South Platte River at Waterton, CO	06708000	2,621	1926-80
East Plum Creek at Castle Rock, CO	06708750	102	1985–89
Plum Creek near Louviers, CO	06709500	302	1947–90
Chatfield Lake near Littleton, CO	06709600	3,018	1975–98
South Platte River at Littleton, CO	06710000	3,069	1941–86
South Platte River at Union Avenue, at Englewood, CO	06710245	3,093	1989–95
Turkey Creek at mouth of canyon near Morrison, CO	06710995	47.4	1998-2001
Turkey Creek above Bear Creek Lake, near Morrison, CO	06711040	50.6	1986–89
Little Dry Creek at Greenwood Village, CO	06711545	14.4	1994–97
South Platte River at Florida Avenue, at Denver, CO	06711590		1981–82
Cherry Creek near Melvin, CO	06712500	360	1939–69
Cherry Creek Lake near Denver, CO	06712990	385	1960–98
Cherry Creek at Glendale, CO	06713300	404	1985-2003
South Platte River at 50th Avenue at Denver, CO	06714130	3,810	1980–81
Senac Creek at North Border Sludge Area, near Aurora, CO	06714220	7.81	1989–93

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Station name	Station number	Drainage area (sq mi)	Period of record (water years)
South Clear Creek above Lower Cabin Creek Reservoir, near Georgetown, CO	06714400		1996–97
South Clear Creek above Leavenworth Creek, near Georgetown, CO	06714600	16.0	1995–97
West Fork Clear Creek above Empire, CO	06715500	40.5	1942-46
West Fork Clear Creek near Empire, CO	06716000	58.2	1929-31
Clear Creek below Idaho Springs, CO	06718000	259	1951-55
North Clear Creek near Blackhawk, CO	06718500	52.2	1951-55
Clear Creek at Forks Creek, CO	06719000	339	1899-1912
Clear Creek near Golden, CO	06719500	399	1908–09,
			1911–74
Clear Creek at Tabor Street, at Lakewood, CO	06719526	427	1981-83
Ralston Creek near Plainview, CO	06719725	36.9	1983-84
Schwartzwalder Mine Effluent near Plainview, CO	06719730		1983-84
Ralston Creek below Schwartzwalder Mine near Plainview, CO	06719735	38.9	1983–84
Ralston Creek above Ralston Reservoir near Golden, CO	06719740	42.7	1983–84
Clear Creek at mouth near Derby, CO	06720000	570	1914,
		(revised)	1927–82
Grange Hall Creek at Grant Park at Northglenn, CO	06720330		1978–79
Grange Hall Creek at Northglenn, CO	06720415	3.08	1978–81
Grange Hall Creek below Northglenn, CO	06720417		1981–82
First Creek below Buckley Road, near Rocky Mountain Arsenal, CO	06720460	26.4	1992–94
First Creek at Highway 2, near Rocky Mountain Arsenal, CO	06720490	39.0	1992–94
Woman Creek near Plainview, CO	06720690		1973–74
North Saint Vrain Creek near Allens Park, CO	06721500	32.6	1926–30,
The transfer of the state of th	00,21000	52.0	1987–97
North Saint Vrain Creek at Longmont Dam near Lyons, CO	06722000	106	1925–53
South Saint Vrain Creek near Ward, CO	06722500	14.4	1925–27,
South Suite France Stock House Hardy Co	0072200		1928–31,
			1954–73
Middle Saint Vrain Creek near Raymond, CO	06722900	16.8	1956–58
Middle Saint Vrain Creek near Allens Park, CO	06723000	28.0	1925–30, <sup>a</sup>
South Saint Vrain Creek above Lyons, CO	06723400	81.4	1923–30, 1971–80
St. Vrain Creek at Lyons, CO	06724000	216	1887–1895
St. Viani Cleek at Lyons, CO	00724000	(revised)	1895–1998
Lefthand Creek near Boulder, CO	06724500	52.0	1929–31,
Ectitiand Cicck fical Boulder, CO	00724300	32.0	1947–53,
			1947–33,
Lefthand Creek at mouth at Longmont, CO	06725000	72.0	1927–42,
Ecitiana Cicck at mouth at Longmont, Co	00723000	72.0	1953–55,
			1935–33, 1976–79
Saint Vrain Creek near Longmont, CO	06725100	370	1964–68
North Boulder Creek at Silver Lake, CO	06726000	8.70	1913–32
North Boulder Creek at Silver Lake, CO North Boulder Creek near Nederland, CO	06726500	30.4	1913–32
Bummers Gulch near El Vado, CO	06726900	3.87	1929–31 1983–95
Fourmile Creek at Orodell, CO	06727500	24.1	1985–95 1947–53,
1 outline Creek at Orough, CO	00727300	∠4.1	
			1983–95

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Station name	Station number	Drainage area (sq mi)	Period of record (water years)
South Boulder Creek near Rollinsville, CO	06729000	42.7	1910–18,
			1945-49
South Boulder Creek at Pinecliff, CO	06729300	72.7	1979-80
Coal Creek near Plainview, CO	06730300	15.1	1959-82
St. Vrain Creek at mouth near Platteville, CO	06731000	979	1904–06,
		(revised)	1915,
			1927-98
Boulder Brook near Estes Park, CO	06731800	3.83	1968-70
Glacier Creek near Estes Park, CO	06732000	20.8	1941–57,
			1968-70
Beaver Brook near Estes Park, CO	06732300	1.49	1968-70
Fall River at Estes Park, CO	06732500	39.8	1945–53 <sup>a</sup>
Big Thompson River at Estes Park, CO	06733000	137	1946–98
Fish Creek near Estes Park, CO	06734500	15.8	1947–55
North Fork Big Thompson River at Drake, CO	06736000	85.1	1947–55
Big Thompson River below Power House near Drake, CO	06736500	278	1917–55
Dry Creek near Pinewood, CO	06740000	7.11	1950-52
Cottonwood Creek near Pinewood, CO	06741000	14.7	1947–53
Big Thompson River near Loveland, CO	06741500	505	1947–55
Little Thompson River near Berthoud, CO	06742000	100	1929–30,
			1947–61
Little Thompson River at Milliken, CO	06743500	199	1951–55
Big Thompson River at mouth near La Salle, CO	06744000	830	1914–15,
			1927–82
Cache La Poudre River above Chambers Lake Outlet, CO	06745000	89.7	1929-31
Joe Wright Creek near Cameron Pass, CO	06746100	5.05	1974–78
Cache La Poudre River near Rustic, CO	06747500	198	1956-68
Cache La Poudre River near Log Cabin, CO	06748000	234	1909–11,
,			1929–31
Fall Creek near Rustic, CO	06748200	3.59	1960-73
South Fork Cache La Poudre near Eggers, CO	06748500	70.6	1929-31
Little Beaver Creek near Idylwilde, CO	06748510	0.88	1960-73
Little Beaver Creek near Rustic, CO	06748530	12.3	1960-73
South Fork Cache La Poudre River near Rustic, CO	06748600	92.4	1956-79
Cache La Poudre River below Elkhorn, CO	06749000	409	1946–59
North Fork Cache La Poudre River near Livermore, CO	06751500	567	1947–65
Cache La Poudre River near Greeley, CO	06752500	1,882	1903-04,
•		(revised)	1914–19,
		(	1924–98
Lonetree Creek at Carr, CO	06753400	167	1993–95
Lonetree Creek near Nunn, CO	06753500	199	1951–57
Lonetree Creek near Greeley, CO	06753990	571	1993–95,
	30.22,73		2001–2004
Crow Creek near Barnsville, CO	06756500	1,324	1951–57
South Platte River at Masters, CO	06756995	12,169	1976–88
South Platte River at Sublette, CO	06757000	12,220	1926–42,
	30.2.333	,	1943–55

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Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Kiowa Creek at K-79 Reservoir near Eastonville, CO	06757600	3.20	1955–65
Kiowa Creek at Elbert, CO	06758000	28.6	1955-65
West Kiowa Creek at Elbert, CO	06758100	35.9	1962-65
Kiowa Creek at Kiowa, CO	06758200	111	1955-65
Kiowa Creek at Bennett, CO	06758300	236	1960-65
Bijou Creek near Wiggins, CO	06759000	1,314	1950-56
Bijou Creek near Fort Morgan, CO	06759100	1,500	1976-87
South Platte River at Cooper Bridge near Balzac, CO	06759910	16,623	1987–98
South Platte River at Balzac, CO	06760000	16,623	1916-80
South Platte River near Crook, CO	06760500	19,006	1953-58
Arikaree River above Spring Canyon near Idalia, CO	06821360	1,111	2002-2003
North Fork Republican River near Wray, CO	06822000	1,019	1937–46,
7		,	1951–57,
			1962–64
South Fork Republican River near Idalia, CO	06825000	1,300	1950–71,
South Form respuesions for non-realist, co	0002000	1,500	1972–81
Landsman Creek near Hale, CO	06825500	268	1950–76,
Editional Creek hear Flate, Co	00023300	200	1977–81
Bonny Reservoir near Hale, CO	06826000	1,820	1950–95
South Fork Republican River near Hale, CO	06826500	1,825	1946–48,
Bouth Fork Republican River hear flate, Co	00020300	1,023	1951–86
Leadville Mine drainage tunnel at Leadville, CO	07079200		1990–93
East Fork Arkansas River near Leadville, CO	07079500	50.0	1890–1903,
East Fork Arkansas River near Leadvine, CO	07079300	30.0	1910–24
Saint Kayin Gulah ahaya Tampla Gulah maar Laadyilla CO	07080980	1.84	1910–24
Saint Kevin Gulch above Temple Gulch, near Leadville, CO	07080980	48.0	
Tennessee Creek near Leadville, CO	07081000	46.0	1890–1903,
	07001000	0.12	1910–24
California Gulch at Malta, CO	07081800	8.13	1991–92
Lake Fork above Sugar Loaf Reservoir, CO	07082000	23.9	1946–67
Halfmoon Creek near Leadville, CO	07083500	25.2	1911–14
Arkansas River near Malta, CO	07083700	228	1964–67,
	05004500		1976–84
Lake Creek above Twin Lakes Reservoir, CO	07084500	75	1946–98
Arkansas River at Buena Vista, CO	07087200	611	1964–80,
			1986–93
Cottonwood Creek below Hot Springs near Buena Vista, CO	07089000	65.0	1910–23,
			1949–86
Chalk Creek upper station near Saint Elmo, CO	07090000	48.0	1913–19
Chalk Creek near Saint Elmo, CO	07090500	83.0	1910–16
Chalk Creek near Nathrop, CO	07091000	97.0	1910, 1949–56,ª
Arkansas River at Salida, CO	07091500	1,218	1895–97,
			1901–03,
			1909-80

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Station name	Station number	Drainage area (sq mi)	Period of record (water years)
South Arkansas River at Poncha, CO	07092000	140	1910–18
Poncha Creek at Poncha, CO	07093000	56.0	1910-18
South Arkansas River near Salida, CO	07093500	208	1922–23,
			1929–40
Badger Creek, upper station, near Howard, CO	07093740	106	1981-2003
Badger Creek, lower station, near Howard, CO	07093775	211	1981–2003
South Colony Creek near Westcliffe, CO	07094600	6.03	1974–78
Middle Taylor Creek near Westcliffe, CO	07094900	3.19	1974–78,
			1984–85
Fourmile Creek near Canon City, CO	07096500	434	1910–11,
			1949–53,
			1971–97
Red Creek below Sullivan Park at Fort Carson, CO	07099080	26.6	2000-2003a
Beaver Creek near Portland, CO	07099100	214	1971–81
Arkansas River near Portland, CO	07099200	4,280	1964–79
Little Turkey Creek near Fountain, CO	07099220	9.59	1978–88
Arkansas River near Pueblo, CO	07099500	4,686	1885–87,
			1889,
			1894–1975
North Monument Creek at Spring Street at Palmer Lake, CO	07103740	16.0	2002-2004
Monument Creek at Palmer Lake, CO	07103747	25.9	1977–90
Monument Creek at Monument, CO	07103750	28.5	1976–77
Deadmans Creek above Deadmans Lake at U.S. Air Force Academy, CO	07103785	1.55	2000–2003
Monument Creek below Sewage Treatment Plant at U.S. Air Force Academy, CC		122	2000–2003
West Monument Creek near Pikeview, CO	07103900	15.4	1957–70
West Monument Creek at mouth at U.S. Air Force Academy, CO	07103930	23.5	2000–2003
Monument Creek at South Boundary at U.S. Air Force Academy, CO	07103940	150	2000–2003
Kettle Creek near Black Forest, CO	07103950	9.01	1976–86
Kettle Creek above U.S. Air Force Academy, CO	07103960	16.0	2000–2003 <sup>a</sup>
Cottonwood Creek at Cowpoke Road at Colorado Springs, CO	07103977	5.93	1998–2003 <sup>a</sup>
Cottonwood Creek Tributary above Rangewood Drive at Colorado Springs, CO	07103985	2.81	1998–2003 <sup>a</sup>
Templeton Gap Floodway at Colorado Springs, CO	07104500	8.73	1951–81
B Ditch Drain near Security, CO	07105780		1981–88
Clover Ditch near Widefield, CO	07105820		1981–88
Little Fountain Creek above Keaton Reservoir, CO	07105920	11.0	1978–88,
	0=10=0=1		1995–98
Womack Ditch near Fort Carson, CO	07105924		1978–91
Little Fountain Creek near Fort Carson, CO	07105928	11.8	1978–89,
Title Colonia	07105040	24.0	1995–98
Little Fountain Creek near Fountain, CO	07105940	26.9	1978–88
Rock Creek near Fort Carson, CO	07105950	7.79	1978–98
Rock Creek near Fountain, CO	07105960	16.9	1978–88
Saint Charles River at San Isabel, CO	07107000	16.0	1936–41
Saint Charles River at Burnt Mill, CO	07107500	166	1923–34

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Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Greenhorn Creek near Rye, CO	07107900	9.56	1974–80, 1999–2001
Greenhorn Creek near Colorado City, CO	07108050	29.6	1974–79
Graneros Creek near Rye, CO	07108100	4.32	1999-2001
Saint Charles River near Pueblo, CO	07108500	467	1941–53,
Saint Charles River near Vineland, CO	07108800	473	1968-74
Saint Charles River at mouth near Pueblo, CO	07109000	475	1922-25
Sixmile Creek near Avondale, CO	07110000	45.0	1922–24,
			1941–46
Chico Creek near Pueblo Chemical Depot, CO	07110400		1997-99
Chico Creek near North Avondale, CO	07110500	864	1941–46
Huerfano River at Malachite, CO	07111500	107	1923-25
Huerfano River near Badito, CO	07112000	499	1941–46,
			1978-81
Huerfano River at Badito, CO	07112500	532	1912,
			1923–25,
			1938–41,
			1946-54
Huerfano River at Huerfano, CO	07113000	717	1923-28
Huerfano River near Mustang, CO	07113500	803	1942-47
Cucharas River at Boyd Ranch near La Veta, CO	07114000	56.0	1934-82
Cucharas River near La Veta, CO	07114500	75.0	1923-34
Huerfano River below Huerfano Valley Dam near Undercliffe, CO	07116000	1,673	1939–67
Arkansas River at Nepesta, CO	07117500	9,460	1898-1902,
			1904–06,
			1936
Chicosa Creek near Fowler, CO	07117600	109	1968–74
Apishapa River near Aguilar, CO	07118000	126	1939-50
Apishapa River at Aguilar, CO	07118500	149	1938–39,
			1978-81
Apishapa River near White Rock, CO	07119000	737	1942-47
Big Arroyo near Thatcher, CO	07120620	15.5	1983–90 <sup>a</sup>
Timpas Creek near Rocky Ford, CO	07121000	451	1922–27,
			1940-50
Fort Lyon Canal near Casa, CO	07122060		1988–90
Fort Lyon Canal near Cornelia, CO	07122105		1988–90
Fort Lyon Canal near Hasty, CO	07122200		1968–75
			1988-90
Fort Lyon Canal near Big Bend, CO	07122350		1988–90
Crooked Arroyo near Swink, CO	07122400	108	1968–93
Crooked Arroyo near La Junta, CO	07122500		1922–25
Horse Creek near Sugar City, CO	07123500	1,080	1940–47
Horse Creek near Las Animas, CO	07123675	1,403	1979–93
Middle Fork Purgatoire River at Stonewall, CO	07124050	57.1	1978-81

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Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Molino Canyon near Weston, CO	07124100	4.23	1978–81
Sarcillo Canyon near Segundo, CO	07124120	35.3	1978-81
Mulligan Canyon near Boncarbo, CO	07124210	4.53	1978-81
Reilly Canyon at Cokedale, CO	07124220	35.1	1978-81
Long Canyon Creek near Madrid, CO	07124300	100	1972-89
Carpios Canyon near Jansen, CO	07124350	4.57	1978-81
Purgatoire River at Trinidad, CO	07124500	795	1895–99,
			1905–12,
			1915–60,
			1961-82
Purgatoire River near Hoehne, CO	07125000	857	1954-68
Frijole Creek near Alfalfa, CO	07125100	80.0	1957-68
San Francisco Creek near Alfalfa, CO	07125500	160	1954-68
Purgatoire River near Alfalfa, CO	07126000	1,320	1905–07,
			1924–28,
			1951–68
Van Bremer Arroyo near Thatcher, CO	07126130	80.6	1983-85
Burke Arroyo Tributary near Thatcher, CO	07126320	4.66	1983-87
Chacuaco Creek at mouth, near Timpas, CO	07126470	424	1983–92 <sup>a</sup>
Purgatoire River at Highland Dam near Las Animas, CO	07128000	3,376	1898,
			1931–55
Rule Creek near Caddoa, CO	07129500	435	1941–46
Caddoa Creek at Caddoa, CO	07131000	131	1941–46
Willow Creek near Lamar, CO	07133050	42.0	1974–77
Big Sandy Creek above Amity Canal near Korman, CO	07134000	3,396	1941–46
Two Butte Creek near Holly	07135000	817	1942–46,
			1995–99 <sup>a</sup>
Arkansas River at Holly, CO	07135500	25,073	1894,
•			1901–02,
			1907-53
Wild Horse Creek at Holly, CO	07136000	270	1922–35,
•			1938-50
Holly Drain near Holly, CO	07136500		1924-50
Rio Grande at Thirtymile Bridge near Creede, CO	08213500	163	1909-23
			1925-98
North Clear Creek below Continental Reservoir, CO	08214500	51.7	1929-98
Willow Creek at Creede, CO	08216500	51.7	1951-82
Rio Grande at Wason below Creede, CO	08217000	705	1907-54
Rio Grande at Wagonwheel Gap, CO	08217500	780	1951-2000
Goose Creek near Wagonwheel Gap, CO	08218000	53.6	1924–26,
			1939–52
Goose Creek at Wagonwheel Gap, CO	08218500	90.0	1954-91
Pinos Creek near Del Norte, CO	08220500	53.0	1919–24,
			1936-82
			1,000

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Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Rio Grande near Monte Vista, CO	08221500	1,590	1926–80
Rock Creek near Monte Vista, CO	08223500	32.9	1935–55,
			1966-70
San Luis Creek near Poncha Pass, CO	08224110	6.57	1979–85
San Luis Creek above Villa Grove, CO	08224113	11.2	1979–85
Raspberry Creek near Villa Grove, CO	08224200	1.78	1967–70,
			1936-82
Noland Gulch Tributary Reservoir Inflow, near Villa Grove, CO	08226600	0.08	1979–89
Cotton Creek near Mineral Hot Springs, CO	08226700	13.6	1967–70
Anaconda Reservoir near Villa Grove, CO	08227300	0.17	1979-85
Tracy Pit Reservoir Inflow near Saguache, CO	08227400	0.05	1979-89
North Crestone Creek near Crestone, CO	08227500	10.7	1936-82
Cottonwood Creek near Crestone, CO	08229500	6.77	1936,
			1967-70
Carnero Creek near La Garita, CO	08230500	117	1919–82
Mosca Creek near Mosca, CO	08234200	3.67	1967–70
Alamosa River above Wightman Fork near Jasper, CO	08235250	37.8	1995–99
Wightman Fork below Cropsey Creek at Summitville, CO	08235270	4.44	1995–99
Wightman Fork at mouth near Jasper, CO	08235290	16.1	1995–99
Alamosa River above Jasper, CO	08235350	58.1	1995–99
Alamosa River below Castleman Gulch near Jasper, CO	08235700	76.3	1995–99
Alamosa Creek above Terrace Reservoir, CO	08236000	107	1911–12,
			1914–27,
			1934–82
Alamosa Creek below Terrace Reservoir, CO	08236500	116	1909-55
La Jara Creek at Gallegos Ranch near Capulin, CO	08238000	98.0	1916–17,
			1919–23,
			1936–82
Yellow Warbler Reservoir Inflow near Antonito, CO	08238350	0.18	1979–89
Turkey Reservoir Inflow near Conejos, CO	08238380	0.24	1979–89
Bobolink Reservoir near Conejos, CO	08238400	0.23	1979–89
Rio Grande above mouth of Trinchera Creek near Lasauses, CO	08240000	5,740	1936–98
Trinchera Creek above Turners Ranch near Fort Garland, CO	08240500	45.0	1923–82
Trinchera Creek above Mountain Home Reservoir near Fort Garland, CO	08241000	61.0	1923–55
Sangre De Cristo Creek near Fort Garland, CO	08241500	190	1916,
			1923–30,
			1931–82
Trinchera Creek below Smith Reservoir near Blanca, CO	08243500	396	1928-82
Conejos River at Platoro, CO	08245500	44.4	1936–53
Conejos River at Counsellors Cabin near Mogote, CO	08246000	211	1943–47
San Antonio River at mouth near Manassa, CO	08248500	348	1923–82
Culebra Creek near Chama, CO	08249400	72.4	1967–70
Culebra Creek below San Luis, CO	08250500	255	1938–55
Rio Grande at CO-NM State Line	08252000		1953–82
NO Offinde at CO-1111 State Effic	00232000		1733-02

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Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Lady Creek near Grand Lake, CO	09010100	0.08	1969–75
Jimmy Creek near Grand Lake, CO	09010400	0.08	1969–75
Onahu Creek near Grand Lake, CO	09010600	8.84	1969
Colorado River near Grand Lake, CO	09011000	102	1904–18,
			1933-86
Little Columbine Creek above Shadow Mountain Lake at Grand Lake, CO	09011500	1.65	1950-55
Tonahutu Creek near Grand Lake, CO	09012400	16.0	1969
Harbison Ditch near Grand Lake, CO	09012410		1969
Tonahutu Creek below Harbison Ditch near Grand Lake, CO	09012420		1969
North Inlet at Grand Lake, CO	09012500	45.9	1905-09,
			1910-12,
			1947-55
East Inlet near Grand Lake, CO	09013500	27.2	1947-55
Grand Lake Outlet at Grand Lake, CO	09014000	76.3	1904-09,
			1910-13
Shadow Mountain Lake near Grand Lake, CO	09014500	185	1947-98
Colorado River below Shadow Mountain Reservoir, CO	09015000	190	1947-59
Columbine Creek above Lake Granby near Grand Lake, CO	09015500	7.38	1950-55
Roaring Fork above Lake Granby, CO	09016000	5.95	1951-55
Arapahoe Creek at Monarch Lake Outlet, CO	09016500	46.9	1944–71
Arapahoe Creek below Monarch Lake, CO	09017000	56.9	1934-44
Stillwater Creek above Lake Granby, CO	09018000	17.5	1950-55
Colorado River below Lake Granby, CO	09019000	312	1950-82
Willow Creek near Granby, CO	09020000	109	1934-53
Willow Creek above Willow Creek Reservoir, CO	09020500	127	1953-60
Willow Creek Reservoir near Granby, CO	09020700	134	1953-98
Willow Creek Beservoir, CO	09021000	134	1953-82
Moffat water tunnel at East Portal, CO	09022500		1935-82
Fraser River above Winter Park, CO	09023500	22.4	1907–09,
			1934–37
Elk Creek near Fraser, CO	09025400	7.15	1970–96
Ranch Creek Ditch near Fraser, CO	09031900		1948–67
Ranch Creek near Tabernash, CO	09032500	51.3	1934-60
Meadow Creek near Tabernash, CO	09033000	8.03	1935–56
Strawberry Creek near Granby, CO	09033500	11.6	1935-45
Fraser River at Granby, CO	CO 09034000 297	1904–09,	
			1937–55
Colorado River at Hot Sulphur Springs, CO	09034500	825	1904–94
Little Muddy Creek near Parshall, CO	09034800	6.52	1953–65
South Fork Williams Fork at Upper Station near Ptarmigan Pass, CO	09035820	2.78	1984–87
South Fork Williams Fork near Ptarmigan Pass, CO	09035830	4.01	1984–88
South Fork Williams Fork above Tributary near Ptarmigan Pass, CO	09035840	5.53	1984–87
South Fork Williams Fork Tributary near Ptarmigan Pass, CO	09035845	0.60	1984–88
South Fork Williams Fork above Short Creek near Ptarmigan Pass, CO	09035850	6.53	1984–87

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Station name	Station number	Drainage area (sq mi)	Period of record (water years)
South Fork Williams Fork below Short Creek near Ptarmigan Pass, CO	09035870	20.0	1984–87
South Fork Williams Fork below Old Baldy Mountain near Leal, CO	09035880	21.8	1985-88
Keyser Creek near Leal, CO	09036500	13.8	1942-52
Williams Fork near Scholl, CO	09037000	141	1910-17
Skylark Creek near Parshall, CO	09037200	2.42	1958-65
Williams Fork Reservoir near Parshall, CO	09038000	230	1939-98
Troublesome Creek near Pearmont, CO	09039000	44.6	1953-93
Troublesome Creek at Atmore Ranch near Troublesome, CO	09039500	48.8	1937-43
East Fork Troublesome Creek near Troublesome, CO	09040000	76.0	1937-43,
			1953-83
Troublesome Creek near Troublesome, CO	09040500	168	1904-05,
			1921–22,
			1937–56
Muddy Creek near Kremmling, CO	09041000	87.4	1937-43,
•			1955–71,
			1993-99
Antelope Creek near Kremmling, CO	09041100	11.5	1955-68
Red Dirt Creek near Kremmling, CO	09041200	19.0	1955-74
Pass Creek near Kremmling, CO	09041300	17.8	1957-70
Muddy Creek at Kremmling, CO	09041500	290	1904-05,
			1982–95
Monte Cristo Creek near Hoosier Pass, CO	09043000	5.66	1953-58
Hoosier Creek near Hoosier Pass, CO	09044000	1.15	1953-58
Bemrose Creek near Hoosier Pass, CO	09044500	1.95	1953-58
McCullough Gulch near Breckenridge, CO	09045000	4.79	1953-58
Spruce Creek near Breckenridge, CO	09045500	5.23	1953-58
Blue River at Dillon, CO	09047000	128	1910-61
Snake River at Dillon, CO	09048000	90.9	1910–19,
			1929-64
West Tenmile Creek at Copper Mountain, CO	09049200	21.0	1973-79
Tenmile Creek at Frisco, CO	09050000	81.0	1942-50
Tenmile Creek at Dillon, CO	09050500	111	1910–19,
			1929-61
Dillon Reservoir	09050600	335	1963-98
Straight Creek near Dillon, CO	09051000	12.9	1943-52
Willow Creek near Dillon, CO	09051500	13.4	1942-51
Rock Creek near Dillon, CO	09052000	15.8	1942–56,
			1966–94
Boulder Creek at upper station, near Dillon, CO	09052400	8.56	1966–94
Boulder Creek near Dillon, CO	09052500	9.89	1942-51
Slate Creek at upper station, near Dillon, CO	09052800	14.2	1966–94
Slate Creek near Dillon, CO	09053000	16.6	1942-54
Blue River above Green Mountain Reservoir, CO	09053500	511	1943–71,
			1985–88

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Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Black Creek below Black Lake, near Dillon, CO	09054000	15.0	1942–49,
			1966–94
Black Creek above Green Mountain Reservoir, CO	09054500	18.5	1944-53
Otter Creek above Green Mountain Reservoir, CO	09055000	8.40	1944-53
Cataract Creek near Kremmling, CO	09055300	12.0	1966–94
Cataract Creek above Green Mountain Reservoir, CO	09055500	13.6	1944-53
Blue River near Kremmling, CO	09056000	571	1904-08
Green Mountain Reservoir	09057000	598	1942-98
Blue River below Spruce Creek near Kremmling, CO	09057520	645	1989–94
Colorado River near Radium, CO	09058030	2,412	1981-90
Piney River below Piney Lake near Minturn, CO	09058500	13.0	1948–54,
.,, , , , ,			1964-2004
Dickson Creek near Minturn, CO	09058600	3.41	1964–71
Dickson Creek near Vail, CO	09058610	3.41	1972-2004
Freeman Creek near Minturn, CO	09058700	2.94	1965-2004
East Meadow Creek near Minturn, CO	09058800	3.61	1965-2004
Rock Creek near Toponas, CO	09060500	47.6	1952-81
Rock Creek at Crater, CO	09060550	72.6	1984–99
Egeria Creek near Toponas, CO	09060700	28.2	1965–73
Rock Creek at McCoy, CO	09060770	198	1983–97
Big Alkali Creek near Burns, CO	09060800	14.2	1958–65
Catamount Creek near Burns, CO	09060900	5.31	1955–61
Big Alkali Creek below Castle Creek near Burns, CO	09060950	34.2	1981–86
Sunnyside Creek near Burns, CO	09061000	9.04	1952–58
Columbine Ditch near Fremont Pass, CO	09061500		1930–82
Ewing Ditch at Tennessee Pass, CO	09062000		1908–82
Wurtz Ditch near Tennessee Pass, CO	09062500		1931–82
Turkey Creek at Red Cliff, CO	09063500	29.4	1913–21,
Turney creat at rice chin, co	0,00000	22	1944–56
Black Gore Creek near Vail, CO	09066050	19.6	1974–79
Gore Creek at Vail, CO	09066250	57.3	1974–79
Gore Creek at Lower Station, at Vail, CO	09066310	77.1	1988–99
Gore Creek near Minturn, CO	09066500	101	1911–14,
	***************************************		1944–56
Beaver Creek at Avon, CO	09067000	14.8	1911,
200.01 0.00.00, 00	0,007,000	10	1912–14,
			1974–87,
			1988
Eagle River at Avon, CO	09067005	395	1988–99,
Alkali Creek near Wolcott, CO	09067300	27.3	1958–65
Eagle River at Eagle, CO	09067500	629	1910–24
East Brush Creek at Yeoman Park near Eagle, CO	09067700	9.74	1965–72
Brush Creek near Eagle, CO	09068000	71.4	1950–72
Diusii Cieck licai Eagle, CO	09008000	/1. <del>4</del>	1930-72

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Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Gypsum Creek near Gypsum, CO	09069500	62.7	1950–55,
			1965-72
Colorado River near Glenwood Springs, CO	09071100		1941-85
Grizzly Creek near Glenwood Springs, CO	09071300	5.73	1976–96
Colorado River at Glenwood Springs, CO	09072500	4,558	1899-1966
Roaring Fork above Lost Man Creek near Aspen, CO	09072550	9.10	1980-86
Lincoln Creek below Grizzly Reservoir near Aspen, CO	09073005	15.2	1980-86
Roaring Fork River at Aspen, CO	09073500	109	1910–21, 1931–64
Hunter Creek above Midway Creek near Aspen, CO	09073700	6.18	1964–80
Hunter Creek Feeder Conduit near Aspen, CO	09073720		1981–83
Midway Creek Feeder Conduit near Aspen, CO	09073790		1981–83
Midway Creek near Aspen, CO	09073800	8.62	1971–80
No Name Creek Feeder Conduit near Aspen, CO	09073890		1981–83
No Name Creek near Aspen, CO	09073900	6.54	1971-80
Castle Creek above Aspen, CO	09074800	32.2	1969–94
Castle Creek near Aspen, CO	09075000	67.0	1911-20
Roaring Fork below Aspen, CO	09075500	228	1913–18
Maroon Creek above Aspen, CO	09075700	35.4	1969–94
Maroon Creek near Aspen, CO	09076000	41.7	1910–17
Owl Creek near Aspen, CO	09076520	6.60	1974-89
Fryingpan River Feeder Canal near Norrie, CO	09077150		1971-83
Fryingpan River near Ivanhoe Lake, CO	09077200	18.7	1963-82
Lily Pad Feeder Canal near Norrie, CO	09077250		1972-83
Granite Creek Feeder Conduit near Norrie, CO	09077300		1981-83
Fryingpan River near Norrie, CO	09077400	32.2	1963-67
Ivanhoe Creek near Norrie, CO	09077600	9.12	1963-76
Ivanhoe Creek Feeder Canal near Nast, CO	09077605		1976-83
Ivanhoe Creek near Nast, CO	09077610	9.43	1976-82
South Fork Fryingpan River Feeder Canal near Norrie, CO	09077750		1971-83
South Fork Fryingpan River at Upper Station near Norrie, CO	09077800	11.5	1963-82
South Fork Fryingpan River near Norrie, CO	09077900	17.3	1963-67
Chapman Gulch Feeder Canal near Norrie, CO	09077940		1971-83
Chapman Gulch near Nast, CO	09077945	6.00	1973-82
Chapman Gulch near Norrie, CO	09077950	6.38	1966–72
Sawyer Creek Feeder Canal near Norrie, CO	09077960		1972-83
Fryingpan River at Norrie, CO	09078000	90.6	1910–17,
<del></del>			1947–83
North Fork Fryingpan River Feeder Canal near Norrie, CO	09078040		1980-83
Morman Creek Feeder Canal near Norrie, CO	09078050		1979-83
Carter Creek Feeder Canal near Norrie, CO	09078060		1980-83
North Fork Fryingpan River above Cunningham Creek near Norrie, CO	09078100	12.0	1963-80
Cunningham Creek Feeder Canal near Norrie, CO	09078140		1979–83

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Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Middle Cunningham Creek Feeder Canal near Norrie, CO	09078150		1980–83
Cunningham Creek near Norrie, CO	09078200	7.12	1963-80
North Fork Fryingpan River below Cunningham Creek near Norrie, CO	09078300	24.2	1963-68
North Fork Fryingpan River near Norrie, CO	09078500	42.0	1910–17,
			1947-82
Lime Creek near Troutville, CO	09078900	4.56	1963-68
Lime Creek at Troutville, CO	09079000	7.76	1950-56
Lime Creek at Thomasville, CO	09079500	35.0	1950-56
Fryingpan River at Thomasville, CO	09080000	173	1915-20
Fryingpan River at Meredith, CO	09080100	191	1910–15,
			1966-80
Fryingpan River at Ruedi, CO	09080200	226	1959–64
Rocky Fork Creek near Meredith, CO	09080300	12.3	1968-82
West Sopris Creek near Basalt, CO	09080800	14.4	1963-68
Crystal River at Marble, CO	09081500	74.3	1910–15,
			1916–17
Crystal River at Placita, CO	09081550	107	1959–73,
			1975–77
Crystal River near Redstone, CO	09082500	229	1935–63
North Thompson Creek near Carbondale, CO	09082800	27.8	1963–79
Thompson Creek near Carbondale, CO	09083000	75.4	1950–60,
			1964–68
Prince Creek near Carbondale, CO	09083700	3.04	1963–68
Cattle Creek near Carbondale, CO	09084000	31.1	1950–55,
			1962–72
Fourmile Creek near Carbondale, CO	09084500	8.10	1941–47
Fourmile Creek near Glenwood Springs, CO	09084600	16.7	1957–65
Canyon Creek above New Castle, CO	09085200	23.8	1969–86
East Canyon Creek near New Castle, CO	09085300	15.1	1969–83
Possum Creek near New Castle, CO	09085400	6.41	1969–82
Canyon Creek near New Castle, CO	09085500	55.0	1954–60
West Elk Creek near New Castle, CO	09086000	9.55	1991–97
Main Elk Creek near New Castle, CO	09086470	91.0	1991–97
East Elk Creek above Boiler Creek near New Castle, CO	09086970	23.4	1991–97
Elk Creek at New Castle, CO	09087500	180	1922–24,
			1954–60
Colorado River at New Castle, CO	09087600	6,308	1966–72
Baldy Creek near New Castle, CO	09088000	15.3	1955–61
West Divide Creek below Willow Creek near Raven, CO	09089000	34.9	1938–47,
T. D. I. G. I. G. G.		40.0	1963–70
East Divide Creek near Silt, CO	09090700	40.8	1959–65
East Rifle Creek near Rifle, CO	09091500	34.3	1936–43,
Bid C 1 Bid CO	00002000	105	1956–64
Rifle Creek near Rifle, CO	09092000	137	1939–46,
			1952–64

The following continuous-record surface-water discharge or stage-only stations (gaging stations) in Colorado have been discontinued or converted to partial-record stations. Daily streamflow or stage records were collected and published for the period of record, expressed in water years, shown for each station.

Beaver Creek near Rifle, CO  Battlement Creek near Parachute, CO  West Parachute Creek near Parachute, CO  Northwater Creek near Anvil Points, CO  East Middle Fork Parachute Creek near Rio Blanco, CO  East Fork Parachute Creek near Anvil Points, CO  East Fork Parachute Creek near Anvil Points, CO  East Fork Parachute Creek near Anvil Points, CO  East Fork Parachute Creek near Rulison, CO  Ben Good Creek near Rulison, CO  Parachute Creek near Parachute, CO  Parachute Creek near Parachute, CO  Description:  09092800  14.5  East Fork Parachute Creek near Rulison, CO  Description:  09092970  20.4  Ben Good Creek near Parachute, CO  Description:  09093500  198	Period of record (water years)
West Parachute Creek near Parachute, CO Northwater Creek near Anvil Points, CO East Middle Fork Parachute Creek near Rio Blanco, CO East Fork Parachute Creek near Anvil Points, CO East Fork Parachute Creek near Anvil Points, CO East Fork Parachute Creek near Rulison, CO East Fork Parachute Creek near Parachute Creek near Rulison, CO East Fork Parachute Creek near Parachute Cre	1952–82
Northwater Creek near Anvil Points, CO East Middle Fork Parachute Creek near Rio Blanco, CO East Fork Parachute Creek near Anvil Points, CO East Fork Parachute Creek near Anvil Points, CO East Fork Parachute Creek near Rulison, CO East Fork	1956-65
East Middle Fork Parachute Creek near Rio Blanco, CO  East Fork Parachute Creek near Anvil Points, CO  East Fork Parachute Creek near Rulison, CO  Ben Good Creek near Rulison, CO  Parachute Creek near Parachute, CO  O9092980  4.04  Parachute Creek near Parachute, CO  O9093000  141	1957-62
East Fork Parachute Creek near Anvil Points, CO  East Fork Parachute Creek near Rulison, CO  Ben Good Creek near Rulison, CO  Parachute Creek near Parachute, CO  09092980  4.04  Parachute Creek near Parachute, CO  09093000  141	1976-83
East Fork Parachute Creek near Rulison, CO  Ben Good Creek near Rulison, CO  Parachute Creek near Parachute, CO  09092980  4.04  20.4  4.04  Parachute Creek near Parachute, CO  09093000  141	1976-83
Ben Good Creek near Rulison, CO Parachute Creek near Parachute, CO 09093000 141	1976-83
Parachute Creek near Parachute, CO 09093000 141	1976-83
	1976-83
	1948–54,
Parachute Creek at Parachute, CO 09093500 198	1964–70,
Parachute Creek at Parachute, CO 09093500 198	1975–86
	1921–27,
	1948–54,
	1975–82
Colorado River near De Beque, CO 09093700 7,370	1967–97
Roan Creek above Clear Creek near De Beque, CO 09094200 151	1962–68
Clear Creek near De Beque, CO 09094400 110	1966–68
Roan Creek near De Beque, CO 09095000 321	1921–26,
	1962–72,
	1975–81
Dry Fork at upper station, near De Beque, CO 09095300 97.4	1996–98,
	2001–2004
Dry Fork near De Beque, CO 09095400 109	1974-82
Government Highline Canal at 16 Road near Loma, CO 09095526	1975-85
Lateral No 48 near Mack, CO 09095528	1973-81
Government Highline Canal above Camp 7 Spillway near Mack, CO 090955285	1983-85
Camp No 7 Spillway near Mack, CO 09095529	1975-82
Government Highline Canal near Mack, CO 09095530	1973-82
Plateau Creek near Heiberger, CO 09095800 18.6	1958-64
Plateau Creek at Upper Station near Collbran, CO 09096000 24.1	1937–43,
	1951–58
Plateau Creek near Collbran, CO 09096500 80.4	1921-80
Buzzard Creek below Owens Creek near Heiberger, CO 09096800 49.7	1955-70
Buzzard Creek near Collbran, CO 09097500 143	1921-80
Brush Creek near Collbran, CO 09097600 9.57	1955–67
Atkinson Creek near Collbran, CO 09098500 0.85	1952-55
East Fork Big Creek near Collbran, CO 09099000 4.92	1940–41,
,	1950–55
Big Creek at Upper Station near Collbran, CO 09099500 20.2	1945–56
Big Creek near Collbran, CO 09100000 27.1	1937–44
Cottonwood Creek at Upper Station near Molina, CO 09100500 14.0	1945–57
Cottonwood Creek near Molina, CO 09101000 17.8	1937–43
Bull Creek at Upper Station near Molina, CO 09101500 9.85	

The following continuous-record surface-water discharge or stage-only stations (gaging stations) in Colorado have been discontinued or converted to partial-record stations. Daily streamflow or stage records were collected and published for the period of record, expressed in water years, shown for each station.

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Coon Creek near Mesa, CO	09104000	9.35	1937–43
Mesa Creek near Mesa, CO	09104500	6.79	1937-60
Colorado River near Palisade, CO	09106000	8,738	1901-33
Kiefer Extension to Grand Valley Canal near Fruita, CO	09106104		1975-85
Kiefer Extension to Grand Valley Canal near Loma, CO	09106108		1975-85
Lewis Wash near Grand Junction, CO	09106200	4.72	1973–79,
			2002-2004
Texas Creek at Taylor Park, CO	09107500	40.4	1929-34,
			1988-92
Willow Creek at Taylor Park, CO	09108000		1913–14,
			1929-34
East River near Crested Butte, CO	09110500	90.3	1939-51
Coal Creek near Crested Butte, CO	09111000	8.65	1941–46
Cement Creek near Crested Butte, CO	09112000	26.1	1910-13,
			1940-51
Castle Creek near Baldwin, CO	09113000	20.3	1944-50
Castle Creek above mouth near Baldwin, CO	09113100	22.4	1993-98
Ohio Creek at Baldwin, CO	09113300	47.2	1958-70
Ohio Creek near Baldwin, CO	09113500	121	1940-50,
			1958–71,
			1979–81
Ohio Creek near Gunnison, CO	09114000	167	1944-50
Tomichi Creek near Doyleville, CO	09116000	209	1944-50
Tomichi Creek at Parlin, CO	09117000	427	1944–51,
			1963-70
Quartz Creek near Ohio City, CO	09118000	106	1937–50,
			1959-70
Cochetopa Creek near Parlin, CO	09118500	361	1940-48
Gunnison River at Iola, CO	09120500	2,352	1899,
			1903,
			1937-51
Cebolla Creek near Lake City, CO	09121500	25.2	1946-54
Cebolla Creek near Powderhorn, CO	09121800	248	1960-63
Cebolla Creek at Powderhorn, CO	09122000	340	1937-55
Soap Creek near Sapinero, CO	09122500	57.4	1955–66
Soap Creek at Sapinero, CO	09123000	86.0	1910–14,
			1945-52
Lake Fork below Mill Gulch near Lake City, CO	09123400	57.5	1981–86
Lake Fork at Lake City, CO	09123500	115	1917–24,
			1928–30,
			1931–37
Henson Creek at Lake City, CO	09124000	83.1	1917–19,
			1928–30,
			1931-37

The following continuous-record surface-water discharge or stage-only stations (gaging stations) in Colorado have been discontinued or converted to partial-record stations. Daily streamflow or stage records were collected and published for the period of record, expressed in water years, shown for each station.

Gunnison River below Blue Mesa Dam, CO Curcanti Creek near Sapinero, CO O9125000 35.0 1945-72 Cimarron River at Cimarron, CO O9126500 209 1902-05, 1902-06, 1902-07 Cimarron River at Cimarron, CO O9127000 229 1942-52 Crystal Creek near Maher, CO O9127000 42.2 1916-19, 1945-54, 1966-19 1945-54, 1966-19 1945-54, 1966-19 1945-54, 1966-19 1945-54, 1966-19 1945-54, 1966-19 1945-54, 1966-19 1945-54, 1966-19 1945-54, 1966-19 1966-19 1966-19 1966-19 Gunnison River above Gunnison Tunnel, CO O9127998 3,965 1910-65 Smith Fork near Crawford, CO O9128900 63.1 1954-60 Iron Creek near Crawford, CO O9129000 63.1 1954-60 Iron Creek near Crawford, CO O9129000 63.1 1954-60 Iron Creek near Crawford, CO O9129000 63.1 1954-60 Iron Creek near Lazear, CO O9129000 166 1976-87 Clear Fork near Ragged Mountain, CO O9129000 130500 71.5 1947-52 Smith Fork near Lazear, CO O9130000 38.5 1965-73 East Muddy Creek near Bardine, CO O9130000 207 1938-43, 1934-53 West Muddy Creek near Barged Mountain, CO O9130000 207 1968-74 West Muddy Creek near Bowie, CO O9131000 207 1968-74 West Muddy Creek near Bowie, CO O9131000 207 1968-74 West Muddy Creek near Bowie, CO O9132000 207 1968-74 West Muddy Creek near Foloresta, CO O9132000 207 1968-74 Main Hubbard Creek near Foloresta, CO O9132000 207 1938-43, 1954-58 Anthracite Creek near Paonia, CO O9132000 207 1938-43, 1960-68 West Hubbard Creek near Paonia, CO O9132000 207 1968-74 North Fork Gunnison River near Paonia, CO O9133000 53.5 1921-32 Minnesota Creek at Paonia, CO O9133000 53.5 1966-79 Leroux Creek near Paonia, CO O9134000 53.5 1966-79 Leroux Creek near Paonia, CO O9134000 53.5 1966-79 Leroux Creek near Cedaredge, CO O9134000 53.6 1976-96 Currant Creek near Cedaredge, CO O9135000 53.5 1976-99 Leroux Creek near Cedaredge, CO O9137000 53.5 1976-90 Leroux Creek near Cedaredge, CO O9137000 53.5 1976-90 Leroux Creek near Cedaredge, CO O9137000 53.5 1976-90 Sear Creek near Grand Mesa, CO O9137000 53.5 1976-90 Sear Creek near Grand Mesa, CO O9137000 53.5 1976-90 Sear Creek near Grand Mesa, CO O9137000 53.5 1	Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Cimarron River at Cimarron, CO         09126500         209         1902-05, 1962-67           Cimarron River below Squaw Creek at Cimarron, CO         09127000         229         1942-52           Crystal Creek near Maher, CO         09127500         42.2         1916-19, 1945-54, 1960-69           Gunnison River above Gunnison Tunnel, CO         09127998         3.965         1905-65           Gunnison Tunnel near Montrose, CO         09127999         3.965         1910-65           Smith Fork near Crawford, CO         09128500         42.8         1935-94           Smith Fork at Crawford, CO         09129000         63.1         1954-60           Iron Creek near Crawford, CO         09129000         61.1         1954-60           Smith Fork at Crawford, CO         09129600         166         1976-87           Clear Fork near Lazear, CO         09129600         166         1976-87           Clear Fork near Ragged Mountain, CO         09130600         33.5         1965-73           East Muddy Creek near Ragged Mountain, CO         09130600         7.2         1955-65           West Muddy Creek near Ragged Mountain, CO         09130800         2.7         1968-74           West Muddy Creek near Faco         0913100         2.7         1988-74           West M	Gunnison River below Blue Mesa Dam, CO	09124700	3,453	1963–68
Cimarron River below Squaw Creek at Cimarron, CO	Curecanti Creek near Sapinero, CO	09125000	35.0	1945-72
Cimarron River below Squaw Creek at Cimarron, CO         09127000         229         1942-52           Crystal Creek near Maher, CO         09127500         42.2         1916-19, 196-19, 1960-69           Gunnison River above Gunnison Tunnel, CO         09127998         3,965         1905-65           Gunnison Tunnel near Montrose, CO         09127999         3,965         1910-65           Smith Fork aer Crawford, CO         09128500         42.8         1935-94           Smith Fork aer Crawford, CO         09129500         63.1         1954-60           Inno Creek near Crawford, CO         09129500         71.5         1947-52           Smith Fork aer Lazear, CO         09129500         71.5         1947-52           Smith Fork near Lazear, CO         09129600         166         1976-87           Clear Fork near Ragged Mountain, CO         09130500         133         1935-63           West Muddy Creek near Bardine, CO         09130600         7.42         1955-65           West Muddy Creek near Bowite, CO         09130800         27.7         1968-74           Cow Creek near Paonia, CO         0913100         49.9         1961-73           Ruby Anthracite Creek near Somerset, CO         09132000         49.9         1961-73           Ruby Anthracite Creek	Cimarron River at Cimarron, CO	09126500	209	1902-05,
Crystal Creek near Maher, CO         09127500         42.2         1916-19, 1945-54, 1946-54, 1946-54, 1946-54, 1946-54, 1946-54, 1960-69           Gunnison River above Gunnison Tunnel, CO         09127998         3,965         1905-65           Gunnison Tunnel near Montrose, CO         09127999         3,965         1910-65           Smith Fork near Crawford, CO         09128500         42.8         1935-94           Smith Fork near Crawford, CO         09129000         63.1         1954-60           Iron Creek near Crawford, CO         09129500         71.5         1947-52           Smith Fork near Lazear, CO         09129800         38.5         1965-73           Smith Fork near Ragged Mountain, CO         09130500         133         1934-53           West Muddy Creek near Bardine, CO         09130600         7.2         1955-65           West Muddy Creek near Bowie, CO         09130800         27.7         1968-74           Cow Creek near Bomie, CO         09131100         12.0         1968-82           West Muddy Creek near Somerset, CO         09132000         20.7         1938-43           Ruby Anthracite Creek near Somerset, CO         09132000         20.7         1938-43           Ruby Anthracite Creek near Floresta, CO         0913200         20.7         1938-43 </td <td></td> <td></td> <td></td> <td>1962-67</td>				1962-67
1945-54, 1960-69   1945-69   1945-69   1960-69   1950-65   1960-69   1950-65   1960-69   1950-65   1960-69   1950-65   1960-69   1950-65   1960-	Cimarron River below Squaw Creek at Cimarron, CO	09127000	229	1942-52
Gunnison River above Gunnison Tunnel, CO         09127998         3,965         1905-65           Gunnison Tunnel near Montrose, CO         09127999         3,965         1905-65           Smith Fork are Crawford, CO         09128500         42.8         1935-94           Smith Fork at Crawford, CO         09129000         63.1         1954-60           Iron Creek near Crawford, CO         09129600         166         1976-87           Clear Fork near Ragged Mountain, CO         09129800         38.5         1965-73           East Muddy Creek near Bardine, CO         09130500         133         1934-53           West Muddy Creek near Ragged Mountain, CO         09130600         7.42         1955-65           West Muddy Creek near Bowie, CO         09130800         27.7         1968-74           Cow Creek near Bowie, CO         09131100         12.0         1968-82           West Muddy Creek near Bowie, CO         09131200         20.7         1938-43           West Muddy Creek near Bowie, CO         09132000         27.7         1968-82           West Muddy Creek near Floresta, CO         09132000         20.7         1938-43           Middle Hubbard Creek near Paonia, CO         09132000         20.7         1988-74           Main Hubbard Creek near Paonia, C	Crystal Creek near Maher, CO	09127500	42.2	1916–19,
Gunnison River above Gunnison Tunnel, CO         09127998         3,965         1905-65           Gunnison Tunnel near Montrose, CO         09127999         3,965         1910-65           Smith Fork near Crawford, CO         09128000         42.8         1935-94           Smith Fork act Crawford, CO         09129900         63.1         1954-60           Iron Creek near Crawford, CO         09129900         71.5         1947-52           Smith Fork near Lazear, CO         09129800         38.5         1965-73           East Muddy Creek near Bardine, CO         09130500         133         1934-53           West Muddy Creek near Bardine, CO         09130600         27.4         1955-65           West Muddy Creek near Sowie, CO         09130800         27.7         1968-74           Cow Creek near Paonia, CO         09131100         12.0         1968-82           West Muddy Creek near Somerset, CO         09131200         49.9         1961-73           Ruby Anthracite Creek near Floresta, CO         0913200         20.7         1938-43           West Muddy Creek near Paonia, CO         09132200         20.7         1938-43           Anthracite Creek near Somerset, CO         0913200         20.7         1968-74           Main Hubbard Creek near Paonia, CO				1945–54,
Gunnison Tunnel near Montrose, CO         09127999         3,965         1910-65           Smith Fork near Crawford, CO         09128500         42.8         1935-94           Smith Fork at Crawford, CO         09129000         63.1         1954-60           Iron Creek near Crawford, CO         09129500         71.5         1947-52           Smith Fork near Lazear, CO         09129600         166         1976-87           Clear Fork near Ragged Mountain, CO         09130500         133         1934-53           West Muddy Creek near Bardine, CO         09130600         7.42         1955-65           West Muddy Creek near Ragged Mountain, CO         09130800         27.7         1968-73           West Muddy Creek near Bowie, CO         0913100         12.0         1968-82           West Muddy Creek near Bowie, CO         0913100         12.0         1968-82           West Muddy Creek near Somerset, CO         0913100         49.9         1961-73           Ruby Anthracite Creek near Floresta, CO         09132000         20.7         1938-43           West Muddy Creek near Floresta, CO         09132000         20.7         1938-43           Anthracite Creek near Pomia, CO         09132000         20.7         1938-43           West Hubbard Creek near Paonia, CO <td></td> <td></td> <td></td> <td>1960-69</td>				1960-69
Smith Fork near Crawford, CO         09128500         42.8         1935-94           Smith Fork at Crawford, CO         09129000         63.1         1954-60           Iron Creek near Crawford, CO         09129500         71.5         1947-52           Smith Fork near Lazear, CO         09129600         166         1976-87           Clear Fork near Ragged Mountain, CO         09130500         38.5         1965-73           East Muddy Creek near Bardine, CO         09130600         7.42         1955-65           West Muddy Creek near Bowie, CO         09130800         27.7         1968-74           Cow Creek near Paonia, CO         09131100         12.0         1968-82           West Muddy Creek near Somerset, CO         09131200         49.9         1961-73           Ruby Anthracite Creek near Somerset, CO         0913200         20.7         1938-43, 1954-58           West Muddy Creek near Floresta, CO         09132000         20.7         1938-43, 1954-58           West Muddy Creek near Somerset, CO         09132000         20.7         1938-43, 1954-58           West Muddy Creek near Somerset, CO         09132000         20.7         1938-43, 1954-58           Ruby Anthracite Creek near Paonia, CO         09132000         1.33         1960-68           Miin	Gunnison River above Gunnison Tunnel, CO	09127998	3,965	1905-65
Smith Fork at Crawford, CO         09129000         63.1         1954-60           Iron Creek near Crawford, CO         09129500         71.5         1947-52           Smith Fork near Lazear, CO         09129600         166         1976-87           Clear Fork near Ragged Mountain, CO         09129800         38.5         1965-73           East Muddy Creek near Bardine, CO         09130500         133         1934-53           West Muddy Creek near Ragged Mountain, CO         09130600         7.42         1955-65           West Muddy Creek near Bowie, CO         09130800         27.7         1968-74           Cow Creek near Bomid, CO         09131200         49.9         1961-73           Ruby Anthracite Creek near Floresta, CO         0913200         20.7         1938-43           West Muddy Creek near Floresta, CO         0913200         20.7         1938-43           Anthracite Creek near Floresta, CO         0913200         20.7         1938-45           Anthracite Creek near Floresta, CO         0913200         20.7         1978-18           Main Hubbard Creek near Paonia, CO         09132700         1.33         1960-68           West Hubbard Creek near Paonia, CO         09132900         2.34         1960-73           Hubbard Creek near Bowie, CO	Gunnison Tunnel near Montrose, CO	09127999	3,965	1910–65
Iron Creek near Crawford, CO         09129500         71.5         1947-52           Smith Fork near Lazear, CO         09129600         166         1976-87           Clear Fork near Ragged Mountain, CO         09129800         38.5         1965-73           East Muddy Creek near Bardine, CO         09130500         133         1934-53           West Muddy Creek near Bawie, CO         09130800         27.7         1968-74           Cow Creek near Paonia, CO         09131100         12.0         1968-82           West Muddy Creek near Somerset, CO         09131200         49.9         1961-73           Ruby Anthracite Creek near Somerset, CO         09132000         20.7         1938-43           Ruby Anthracite Creek near Somerset, CO         09132000         20.7         1938-43           Anthracite Creek near Paonia, CO         09132000         20.7         1938-43           Middle Hubbard Creek near Paonia, CO         09132000         1.33         1960-68           Middle Hubbard Creek near Paonia, CO         09132800         1.36         1960-68           West Hubbard Creek near Paonia, CO         09132900         2.34         1960-73           Hubbard Creek near Bawie, CO         0913400         653         1921-32           Minnesota Creek are Bawie, CO </td <td>Smith Fork near Crawford, CO</td> <td>09128500</td> <td>42.8</td> <td>1935–94</td>	Smith Fork near Crawford, CO	09128500	42.8	1935–94
Smith Fork near Lazear, CO         09129600         166         1976–87           Clear Fork near Ragged Mountain, CO         09129800         38.5         1965–73           East Muddy Creek near Bardine, CO         09130600         7.42         1955–65           West Muddy Creek near Ragged Mountain, CO         09130600         7.42         1955–65           West Muddy Creek near Bowie, CO         0913100         12.0         1968–82           West Muddy Creek near Somerset, CO         09131200         49.9         1961–73           Ruby Anthracite Creek near Somerset, CO         09132000         20.7         1938–43           Anthracite Creek near Somerset, CO         09132000         20.7         1938–43           Anthracite Creek near Somerset, CO         09132000         9.6         1977–81           Main Hubbard Creek near Paonia, CO         0913200         9.6         1977–81           Middle Hubbard Creek near Paonia, CO         09132800         1.36         1960–68           West Hubbard Creek near Paonia, CO         09132900         2.34         1960–73           Hubbard Creek near Bowie, CO         09132900         2.34         1960–73           Hubbard Creek near Bowie, CO         09134000         53.5         1976–79           Cutonwood Creek near	Smith Fork at Crawford, CO	09129000	63.1	1954-60
Clear Fork near Ragged Mountain, CO         09129800         38.5         1965-73           East Muddy Creek near Bardine, CO         09130500         133         1934-53           West Muddy Creek near Ragged Mountain, CO         09130600         7.42         1955-65           West Muddy Creek near Bowie, CO         0913100         27.7         1968-74           Cow Creek near Paonia, CO         09131100         12.0         1968-82           West Muddy Creek near Somerset, CO         09131200         49.9         1961-73           Ruby Anthracite Creek near Floresta, CO         09132000         20.7         1938-43           Anthracite Creek near Floresta, CO         09132000         94.6         1977-81           Main Hubbard Creek near Paonia, CO         09132050         94.6         1977-81           Main Hubbard Creek near Paonia, CO         09132800         1.33         1960-68           West Hubbard Creek near Paonia, CO         09132800         1.36         1960-68           West Hubbard Creek near Paonia, CO         09132900         2.34         1960-73           Hubbard Creek near Bowie, CO         09132900         2.34         1960-73           North Fork Gunnison River near Paonia, CO         09132900         653         1921-32           Minnesota	Iron Creek near Crawford, CO	09129500	71.5	1947-52
East Muddy Creek near Bardine, CO         09130500         133         1934–53           West Muddy Creek near Ragged Mountain, CO         09130600         7.42         1955–65           West Muddy Creek near Bowie, CO         09130800         27.7         1968–74           Cow Creek near Paonia, CO         09131100         12.0         1968–82           West Muddy Creek near Somerset, CO         09132000         49.9         1961–73           Ruby Anthracite Creek near Floresta, CO         09132000         20.7         1938–43           Anthracite Creek near Somerset, CO         09132050         94.6         1977–81           Main Hubbard Creek near Paonia, CO         09132900         1.33         1960–68           Middle Hubbard Creek near Paonia, CO         09132900         1.36         1960–68           West Hubbard Creek near Paonia, CO         09132900         2.34         1960–73           Hubbard Creek near Paonia, CO         09132900         2.07         1968–74           Worth Fork Gunnison River near Paonia, CO         09133000         653         1921–32           Minnesota Creek at Paonia, CO         0913400         53.5         1976–79           Cottonwood Creek near Hotchkiss, CO         09134500         34.5         1936–56,           Cow Creek	Smith Fork near Lazear, CO	09129600	166	1976–87
West Muddy Creek near Ragged Mountain, CO         09130600         7.42         1955-65           West Muddy Creek near Bowie, CO         09130800         27.7         1968-74           Cow Creek near Paonia, CO         09131100         12.0         1968-74           West Muddy Creek near Somerset, CO         09131200         49.9         1961-73           Ruby Anthracite Creek near Floresta, CO         09132000         20.7         1938-43,           Ruby Anthracite Creek near Somerset, CO         09132050         94.6         1977-81           Main Hubbard Creek near Paonia, CO         09132700         1.33         1960-68           Middle Hubbard Creek near Paonia, CO         09132800         1.36         1960-68           West Hubbard Creek near Paonia, CO         09132900         2.34         1960-73           Hubbard Creek near Paonia, CO         09132900         2.34         1960-73           Hubbard Creek near Bowie, CO         09132900         2.34         1960-73           Hubbard Creek near Bowie, CO         09133000         653         1921-32           Minnesota Creek near Bowie, CO         09133000         653         1921-32           Minnesota Creek near Hotchkiss, CO         09134500         34.5         1936-56           Leroux Creek near Ceda	Clear Fork near Ragged Mountain, CO	09129800	38.5	1965-73
West Muddy Creek near Bowie, CO         09130800         27.7         1968-74           Cow Creek near Paonia, CO         09131100         12.0         1968-82           West Muddy Creek near Somerset, CO         09131200         49.9         1961-73           Ruby Anthracite Creek near Floresta, CO         09132000         20.7         1938-43, 1954-58           Anthracite Creek near Floresta, CO         09132050         94.6         1977-81           Main Hubbard Creek near Paonia, CO         09132700         1.33         1960-68           Middle Hubbard Creek near Paonia, CO         09132800         1.36         1960-68           Mest Hubbard Creek near Paonia, CO         09132900         2.34         1960-73           Hubbard Creek near Bowie, CO         09132920         20.7         1968-74           North Fork Gunnison River near Paonia, CO         09133000         653         1921-32           Minnesota Creek at Paonia, CO         09134050         53.5         1976-79           Cottonwood Creek near Hotchkiss, CO         09134500         34.5         1936-56, 1960-69           Leroux Creek near Cedaredge, CO         09134500         34.5         1960-69           Cow Creek near Lazear, CO         09135000         51.8         1917-26           Leroux Cre	East Muddy Creek near Bardine, CO	09130500	133	1934–53
Cow Creek near Paonia, CO         09131100         12.0         1968–82           West Muddy Creek near Somerset, CO         09131200         49.9         1961–73           Ruby Anthracite Creek near Floresta, CO         09132000         20.7         1938–43, 1954–58           Anthracite Creek near Somerset, CO         09132050         94.6         1977–81           Main Hubbard Creek near Paonia, CO         09132700         1.33         1960–68           Middle Hubbard Creek near Paonia, CO         09132800         1.36         1960–68           West Hubbard Creek near Paonia, CO         09132900         2.34         1960–73           Hubbard Creek near Bowie, CO         09132900         2.07         1968–74           North Fork Gunnison River near Paonia, CO         09133000         653         1921–32           Minnesota Creek at Paonia, CO         09134000         53.5         1976–79           Cottonwood Creek near Hotchkiss, CO         09134200         41.0         1976–79           Leroux Creek near Cedaredge, CO         09134500         34.5         1960–69           Cow Creek near Lazear, CO         09134700         7.24         1960–69           Leroux Creek at Hotchkiss, CO         09135000         51.8         1917–26           Leroux Creek near Laz	West Muddy Creek near Ragged Mountain, CO	09130600	7.42	1955–65
West Muddy Creek near Somerset, CO         09131200         49.9         1961–73           Ruby Anthracite Creek near Floresta, CO         09132000         20.7         1938–43, 1954–58           Anthracite Creek near Somerset, CO         09132050         94.6         1977–81           Main Hubbard Creek near Paonia, CO         09132700         1.33         1960–68           Middle Hubbard Creek near Paonia, CO         09132800         1.36         1960–68           West Hubbard Creek near Paonia, CO         09132900         2.34         1960–73           Hubbard Creek near Bowie, CO         09132920         20.7         1968–74           North Fork Gunnison River near Paonia, CO         09133000         653         1921–32           Minnesota Creek at Paonia, CO         09134050         53.5         1976–79           Cottonwood Creek near Hotchkiss, CO         09134200         41.0         1976–79           Leroux Creek near Cedaredge, CO         09134500         34.5         1936–56,           Leroux Creek near Cedaredge, CO         09134700         7.24         1960–69           Leroux Creek near Lazear, CO         09135000         51.8         1917–26           Leroux Creek at Hotchkiss, CO         09135000         51.8         1917–96           Gunnison Ri	West Muddy Creek near Bowie, CO	09130800	27.7	1968–74
Ruby Anthracite Creek near Floresta, CO       09132000       20.7       1938-43, 1954-58         Anthracite Creek near Somerset, CO       09132050       94.6       1977-81         Main Hubbard Creek near Paonia, CO       09132700       1.33       1960-68         Middle Hubbard Creek near Paonia, CO       09132800       1.36       1960-68         Mest Hubbard Creek near Paonia, CO       09132900       2.34       1960-73         Hubbard Creek near Bowie, CO       09132920       20.7       1968-74         North Fork Gunnison River near Paonia, CO       09133000       653       1921-32         Minnesota Creek at Paonia, CO       09134050       53.5       1976-79         Cottonwood Creek near Hotchkiss, CO       09134200       41.0       1976-79         Leroux Creek near Cedaredge, CO       09134500       34.5       1960-69         Leroux Creek near Cedaredge, CO       09134700       7.24       1960-69         Leroux Creek near Lazear, CO       09135000       51.8       1917-26         Leroux Creek at Hotchkiss, CO       09135000       5.241       1962-85         Currant Creek near Cedaredge, CO       09136500       42.2       1948-54         Currant Creek near Geard Mesa, CO       09137050       56.9       1975-69	Cow Creek near Paonia, CO	09131100	12.0	1968-82
Anthracite Creek near Somerset, CO  Minnesota Creek near Paonia, CO  Minnesota Creek near Bowie, CO  Minnesota Creek near Hotchkiss, CO  Minnesota Creek near Cedaredge, CO  Minnesota Creek near Cedared	West Muddy Creek near Somerset, CO	09131200	49.9	1961-73
Anthracite Creek near Somerset, CO       09132050       94.6       1977-81         Main Hubbard Creek near Paonia, CO       09132700       1.33       1960-68         Middle Hubbard Creek near Paonia, CO       09132800       1.36       1960-68         West Hubbard Creek near Paonia, CO       09132900       2.34       1960-73         Hubbard Creek near Bowie, CO       09132920       20.7       1968-74         North Fork Gunnison River near Paonia, CO       09133000       653       1921-32         Minnesota Creek at Paonia, CO       09134050       53.5       1976-79         Cottonwood Creek near Hotchkiss, CO       09134200       41.0       1976-79         Leroux Creek near Cedaredge, CO       09134500       34.5       1936-56,         1960-69       1960-69       1960-69       1960-69         Leroux Creek near Cedaredge, CO       09134700       7.24       1960-69         Leroux Creek at Hotchkiss, CO       09135900       51.8       1917-26         Leroux Creek at Hotchkiss, CO       09135900       56.7       1976-96         Gunnison River near Lazear, CO       09136200       5,241       1962-85         Currant Creek near Cedaredge, CO       09137050       56.9       1976-87         Dirty George Creek nea	Ruby Anthracite Creek near Floresta, CO	09132000	20.7	1938–43,
Main Hubbard Creek near Paonia, CO       09132700       1.33       1960-68         Middle Hubbard Creek near Paonia, CO       09132800       1.36       1960-68         West Hubbard Creek near Paonia, CO       09132900       2.34       1960-73         Hubbard Creek near Bowie, CO       09132920       20.7       1968-74         North Fork Gunnison River near Paonia, CO       09133000       653       1921-32         Minnesota Creek at Paonia, CO       09134050       53.5       1976-79         Cottonwood Creek near Hotchkiss, CO       09134200       41.0       1976-79         Leroux Creek near Cedaredge, CO       09134500       34.5       1936-56,         Leroux Creek near Cedaredge, CO       09134700       7.24       1960-69         Leroux Creek near Lazear, CO       09135000       51.8       1917-26         Leroux Creek at Hotchkiss, CO       09135900       66.7       1976-96         Gunnison River near Lazear, CO       09136200       5,241       1962-85         Currant Creek near Cedaredge, CO       09137050       56.9       1976-87         Dirty George Creek near Grand Mesa, CO       09137800       10.6       1957-69         Ward Creek near Grand Mesa, CO       09139200       12.2       1957-69 <t< td=""><td></td><td></td><td></td><td>1954–58</td></t<>				1954–58
Middle Hubbard Creek near Paonia, CO       09132800       1.36       1960–68         West Hubbard Creek near Paonia, CO       09132900       2.34       1960–73         Hubbard Creek near Bowie, CO       09132920       20.7       1968–74         North Fork Gunnison River near Paonia, CO       09133000       653       1921–32         Minnesota Creek at Paonia, CO       09134050       53.5       1976–79         Cottonwood Creek near Hotchkiss, CO       09134200       41.0       1976–79         Leroux Creek near Cedaredge, CO       09134500       34.5       1936–56,         Leroux Creek near Lazear, CO       09135000       51.8       1917–26         Leroux Creek at Hotchkiss, CO       09135000       51.8       1917–26         Leroux Creek at Hotchkiss, CO       09136200       5,241       1962–85         Gunnison River near Lazear, CO       09136200       5,241       1962–85         Currant Creek near Cedaredge, CO       09137050       56.9       1976–87         Dirty George Creek near Grand Mesa, CO       09137800       10.6       1957–69         Ward Creek near Grand Mesa, CO       09139200       12.2       1957–69         Ward Creek near Grand Mesa, CO       09139500       20.4       1939–46         Kis	Anthracite Creek near Somerset, CO	09132050	94.6	1977–81
West Hubbard Creek near Paonia, CO       09132900       2.34       1960–73         Hubbard Creek near Bowie, CO       09132920       20.7       1968–74         North Fork Gunnison River near Paonia, CO       09133000       653       1921–32         Minnesota Creek at Paonia, CO       09134050       53.5       1976–79         Cottonwood Creek near Hotchkiss, CO       09134200       41.0       1976–79         Leroux Creek near Cedaredge, CO       09134500       34.5       1936–56,         Leroux Creek near Cedaredge, CO       09134700       7.24       1960–69         Leroux Creek near Lazear, CO       09135000       51.8       1917–26         Leroux Creek at Hotchkiss, CO       09135900       66.7       1976–96         Gunnison River near Lazear, CO       09136200       5,241       1962–85         Currant Creek near Cedaredge, CO       09136500       42.2       1948–54         Currant Creek near Grand Mesa, CO       09137800       10.6       1957–69         Ward Creek near Grand Mesa, CO       09139200       12.2       1957–69         Ward Creek near Cedaredge, CO       09139500       20.4       1939–46         Kiser Creek near Grand Mesa, CO       09140200       5.35       1957–69	Main Hubbard Creek near Paonia, CO	09132700	1.33	1960-68
Hubbard Creek near Bowie, CO       09132920       20.7       1968–74         North Fork Gunnison River near Paonia, CO       09133000       653       1921–32         Minnesota Creek at Paonia, CO       09134050       53.5       1976–79         Cottonwood Creek near Hotchkiss, CO       09134200       41.0       1976–79         Leroux Creek near Cedaredge, CO       09134500       34.5       1936–56,         1960–69       1960–69         Cow Creek near Cedaredge, CO       09135000       51.8       1917–26         Leroux Creek at Hotchkiss, CO       09135900       66.7       1976–96         Gunnison River near Lazear, CO       09136200       5,241       1962–85         Currant Creek near Cedaredge, CO       09136500       42.2       1948–54         Currant Creek near Read, CO       09137050       56.9       1976–87         Dirty George Creek near Grand Mesa, CO       09137800       10.6       1957–69         Ward Creek near Grand Mesa, CO       09139200       12.2       1957–69         Ward Creek near Grand Mesa, CO       09139500       20.4       1939–46         Kiser Creek near Grand Mesa, CO       09140200       5.35       1957–69	Middle Hubbard Creek near Paonia, CO	09132800	1.36	1960–68
North Fork Gunnison River near Paonia, CO         09133000         653         1921–32           Minnesota Creek at Paonia, CO         09134050         53.5         1976–79           Cottonwood Creek near Hotchkiss, CO         09134200         41.0         1976–79           Leroux Creek near Cedaredge, CO         09134500         34.5         1936–56, 1960–69           Cow Creek near Cedaredge, CO         09134700         7.24         1960–69           Leroux Creek near Lazear, CO         09135000         51.8         1917–26           Leroux Creek at Hotchkiss, CO         09135900         66.7         1976–96           Gunnison River near Lazear, CO         09136200         5,241         1962–85           Currant Creek near Cedaredge, CO         09136500         42.2         1948–54           Currant Creek near Read, CO         09137050         56.9         1976–87           Dirty George Creek near Grand Mesa, CO         09137800         10.6         1957–69           Ward Creek near Grand Mesa, CO         09139200         12.2         1957–69           Ward Creek near Grand Mesa, CO         09139500         20.4         1939–46           Kiser Creek near Grand Mesa, CO         09140200         5.35         1957–69	West Hubbard Creek near Paonia, CO	09132900	2.34	1960-73
Minnesota Creek at Paonia, CO       09134050       53.5       1976–79         Cottonwood Creek near Hotchkiss, CO       09134200       41.0       1976–79         Leroux Creek near Cedaredge, CO       09134500       34.5       1936–56, 1960–69         Cow Creek near Cedaredge, CO       09134700       7.24       1960–69         Leroux Creek near Lazear, CO       09135000       51.8       1917–26         Leroux Creek at Hotchkiss, CO       09135900       66.7       1976–96         Gunnison River near Lazear, CO       09136200       5,241       1962–85         Currant Creek near Cedaredge, CO       09136500       42.2       1948–54         Currant Creek near Read, CO       09137050       56.9       1976–87         Dirty George Creek near Grand Mesa, CO       09137800       10.6       1957–69         Ward Creek near Cedaredge, CO       09139200       12.2       1957–69         Ward Creek near Cedaredge, CO       09139500       20.4       1939–46         Kiser Creek near Grand Mesa, CO       09140200       5.35       1957–69	Hubbard Creek near Bowie, CO	09132920	20.7	1968–74
Cottonwood Creek near Hotchkiss, CO       09134200       41.0       1976–79         Leroux Creek near Cedaredge, CO       09134500       34.5       1936–56, 1960–69         Cow Creek near Cedaredge, CO       09134700       7.24       1960–69         Leroux Creek near Lazear, CO       09135000       51.8       1917–26         Leroux Creek at Hotchkiss, CO       09135900       66.7       1976–96         Gunnison River near Lazear, CO       09136200       5,241       1962–85         Currant Creek near Cedaredge, CO       09136500       42.2       1948–54         Currant Creek near Read, CO       09137050       56.9       1976–87         Dirty George Creek near Grand Mesa, CO       09137800       10.6       1957–69         Ward Creek near Cedaredge, CO       09139200       12.2       1957–69         Ward Creek near Cedaredge, CO       09139500       20.4       1939–46         Kiser Creek near Grand Mesa, CO       09140200       5.35       1957–69	North Fork Gunnison River near Paonia, CO	09133000	653	1921–32
Leroux Creek near Cedaredge, CO       09134500       34.5       1936–56, 1960–69         Cow Creek near Cedaredge, CO       09134700       7.24       1960–69         Leroux Creek near Lazear, CO       09135000       51.8       1917–26         Leroux Creek at Hotchkiss, CO       09135900       66.7       1976–96         Gunnison River near Lazear, CO       09136200       5,241       1962–85         Currant Creek near Cedaredge, CO       09136500       42.2       1948–54         Currant Creek near Read, CO       09137050       56.9       1976–87         Dirty George Creek near Grand Mesa, CO       09137800       10.6       1957–69         Ward Creek near Grand Mesa, CO       09139200       12.2       1957–69         Ward Creek near Cedaredge, CO       09139500       20.4       1939–46         Kiser Creek near Grand Mesa, CO       09140200       5.35       1957–69	Minnesota Creek at Paonia, CO	09134050	53.5	1976–79
1960-69	Cottonwood Creek near Hotchkiss, CO	09134200	41.0	1976–79
Cow Creek near Cedaredge, CO       09134700       7.24       1960-69         Leroux Creek near Lazear, CO       09135000       51.8       1917-26         Leroux Creek at Hotchkiss, CO       09135900       66.7       1976-96         Gunnison River near Lazear, CO       09136200       5,241       1962-85         Currant Creek near Cedaredge, CO       09136500       42.2       1948-54         Currant Creek near Read, CO       09137050       56.9       1976-87         Dirty George Creek near Grand Mesa, CO       09137800       10.6       1957-69         Ward Creek near Grand Mesa, CO       09139200       12.2       1957-69         Ward Creek near Cedaredge, CO       09139500       20.4       1939-46         Kiser Creek near Grand Mesa, CO       09140200       5.35       1957-69	Leroux Creek near Cedaredge, CO	09134500	34.5	1936–56,
Leroux Creek near Lazear, CO       09135000       51.8       1917–26         Leroux Creek at Hotchkiss, CO       09135900       66.7       1976–96         Gunnison River near Lazear, CO       09136200       5,241       1962–85         Currant Creek near Cedaredge, CO       09136500       42.2       1948–54         Currant Creek near Read, CO       09137050       56.9       1976–87         Dirty George Creek near Grand Mesa, CO       09137800       10.6       1957–69         Ward Creek near Grand Mesa, CO       09139200       12.2       1957–69         Ward Creek near Cedaredge, CO       09139500       20.4       1939–46         Kiser Creek near Grand Mesa, CO       09140200       5.35       1957–69				1960–69
Leroux Creek at Hotchkiss, CO       09135900       66.7       1976–96         Gunnison River near Lazear, CO       09136200       5,241       1962–85         Currant Creek near Cedaredge, CO       09136500       42.2       1948–54         Currant Creek near Read, CO       09137050       56.9       1976–87         Dirty George Creek near Grand Mesa, CO       09137800       10.6       1957–69         Ward Creek near Grand Mesa, CO       09139200       12.2       1957–69         Ward Creek near Cedaredge, CO       09139500       20.4       1939–46         Kiser Creek near Grand Mesa, CO       09140200       5.35       1957–69	Cow Creek near Cedaredge, CO	09134700	7.24	1960–69
Gunnison River near Lazear, CO       09136200       5,241       1962–85         Currant Creek near Cedaredge, CO       09136500       42.2       1948–54         Currant Creek near Read, CO       09137050       56.9       1976–87         Dirty George Creek near Grand Mesa, CO       09137800       10.6       1957–69         Ward Creek near Grand Mesa, CO       09139200       12.2       1957–69         Ward Creek near Cedaredge, CO       09139500       20.4       1939–46         Kiser Creek near Grand Mesa, CO       09140200       5.35       1957–69	Leroux Creek near Lazear, CO	09135000	51.8	1917–26
Currant Creek near Cedaredge, CO       09136500       42.2       1948–54         Currant Creek near Read, CO       09137050       56.9       1976–87         Dirty George Creek near Grand Mesa, CO       09137800       10.6       1957–69         Ward Creek near Grand Mesa, CO       09139200       12.2       1957–69         Ward Creek near Cedaredge, CO       09139500       20.4       1939–46         Kiser Creek near Grand Mesa, CO       09140200       5.35       1957–69	Leroux Creek at Hotchkiss, CO	09135900	66.7	1976–96
Currant Creek near Read, CO       09137050       56.9       1976–87         Dirty George Creek near Grand Mesa, CO       09137800       10.6       1957–69         Ward Creek near Grand Mesa, CO       09139200       12.2       1957–69         Ward Creek near Cedaredge, CO       09139500       20.4       1939–46         Kiser Creek near Grand Mesa, CO       09140200       5.35       1957–69	Gunnison River near Lazear, CO	09136200	5,241	1962–85
Dirty George Creek near Grand Mesa, CO       09137800       10.6       1957–69         Ward Creek near Grand Mesa, CO       09139200       12.2       1957–69         Ward Creek near Cedaredge, CO       09139500       20.4       1939–46         Kiser Creek near Grand Mesa, CO       09140200       5.35       1957–69	Currant Creek near Cedaredge, CO	09136500	42.2	1948-54
Ward Creek near Grand Mesa, CO       09139200       12.2       1957–69         Ward Creek near Cedaredge, CO       09139500       20.4       1939–46         Kiser Creek near Grand Mesa, CO       09140200       5.35       1957–69	Currant Creek near Read, CO	09137050	56.9	1976–87
Ward Creek near Cedaredge, CO         09139500         20.4         1939–46           Kiser Creek near Grand Mesa, CO         09140200         5.35         1957–69	Dirty George Creek near Grand Mesa, CO	09137800		1957–69
Kiser Creek near Grand Mesa, CO 09140200 5.35 1957–69	Ward Creek near Grand Mesa, CO	09139200	12.2	1957–69
,	Ward Creek near Cedaredge, CO	09139500	20.4	1939–46
Kiser Creek near Cedaredge, CO 09140500 10.8 1939–46	,	09140200		1957–69
	Kiser Creek near Cedaredge, CO	09140500	10.8	1939–46
Cottonwood Creek near Grand Mesa, CO 09140700 2.15 1957–68	Cottonwood Creek near Grand Mesa, CO	09140700	2.15	1957–68

The following continuous-record surface-water discharge or stage-only stations (gaging stations) in Colorado have been discontinued or converted to partial-record stations. Daily streamflow or stage records were collected and published for the period of record, expressed in water years, shown for each station.

Cottonwood Creek near Cedaredge, CO         09141000         4.39         1939-46           Youngs Creek near Grand Mesa, CO         09141200         10.3         1957-69           Youngs Creek near Cedaredge, CO         09141200         12.2         1944-52           Ward Creek below Kiser Creek near Cedaredge, CO         09142000         52.2         1944-52           Surface Creek at Ecker, CO         09144000         43.6         1939-51           Tongue Creek at Cory, CO         09144200         197         1957-68           Red Mountain Creek near Ironton, CO         09145000         42.0         1908,           Uncompalgre River At Ouray, CO         09145000         42.0         1908,           Uncompatigre River At Ouray, CO         09145000         42.0         1908,           Uncompatigre River below Ouray, CO         09146000         75.2         1913-29           West Fork Dallas Creek near Ridgway, CO         09146600         16.8         1945-53           East Fork Dallas Creek near Ridgway, CO         09146500         16.8         1947-53           Beaver Creek near Ridgway, CO         09146500         8.17         1955-67           Cow Creek near Ridgway, CO         09146600         8.17         1955-67           Cow Creek near Beaver Hill, CO </th <th>Station name</th> <th>Station number</th> <th>Drainage area (sq mi)</th> <th>Period of record (water years)</th>	Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Youngs Creek near Cedaredge, CO         0914500         11.3         1939-46           Ward Creek a tekert, CO         09144000         43.6         1939-51           Tongue Creek at Eckert, CO         09144000         43.6         1939-51           Tongue Creek at Eckert, CO         09144000         197         1957-68           Red Mountain Creek near Ironton, CO         0914500         18.1         1947-55           Uncompalgre River At Ouray, CO         0914500         42.0         1908,           Canyon Creek at Ouray, CO         0914500         25.8         1910-15           Uncompalgre River below Ouray, CO         09146600         75.2         1913-29           West Fork Dallas Creek near Ridgway, CO         09146600         75.2         1913-29           East Fork Dallas Creek near Ridgway, CO         09146500         16.8         1947-53           Beaver Creek near Ridgway, CO         09146500         16.8         1947-53           Beaver Creek near Ridgway, CO         09146600         8.17         1955-67           Cow Creek near Role, CO         09146600         8.17         1955-67           Spring Creek near Beaver Hill, CO         09149400         41.6         1977-81           Spring Creek near Beaver Hill, CO         09149900	Cottonwood Creek near Cedaredge, CO	09141000	4.39	1939–46
Youngs Creek near Cedaredge, CO         0914500         11.3         1939-46           Ward Creek a tekert, CO         09144000         43.6         1939-51           Tongue Creek at Eckert, CO         09144000         43.6         1939-51           Tongue Creek at Eckert, CO         09144000         197         1957-68           Red Mountain Creek near Ironton, CO         0914500         18.1         1947-55           Uncompalgre River At Ouray, CO         0914500         42.0         1908,           Canyon Creek at Ouray, CO         0914500         25.8         1910-15           Uncompalgre River below Ouray, CO         09146600         75.2         1913-29           West Fork Dallas Creek near Ridgway, CO         09146600         75.2         1913-29           East Fork Dallas Creek near Ridgway, CO         09146500         16.8         1947-53           Beaver Creek near Ridgway, CO         09146500         16.8         1947-53           Beaver Creek near Ridgway, CO         09146600         8.17         1955-67           Cow Creek near Role, CO         09146600         8.17         1955-67           Spring Creek near Beaver Hill, CO         09149400         41.6         1977-81           Spring Creek near Beaver Hill, CO         09149900	Youngs Creek near Grand Mesa, CO	09141200	10.3	1957-69
Ward Creek below Kiser Creek near Cedaredge, CO         09144000         52.2         1944-52           Surface Creek at Eckert, CO         09144000         43.6         1939-51           Tongue Creek at Cory, CO         09144000         197         1957-68, 1976-88, 1976-88, 1976-88, 1976-87           Red Mountain Creek near Ironton, CO         09144500         18.1         1947-55           Uncompabgre River At Ouray, CO         0914500         25.8         1910-15           Uncompabgre River below Ouray, CO         0914600         75.2         1913-29           West Fork Dallas Creek near Ridgway, CO         0914600         14.1         1955-70           East Fork Dallas Creek near Ridgway, CO         09146500         16.8         1947-33           Beaver Creek near Ridgway, CO         09146500         12.2         1960-70           Beaver Creek near Ridgway, CO         09146600         8.17         1955-67           Cow Creek near Ridgway, CO         09146600         8.17         1955-67           Cow Creek near Ridgway, CO         09149400         45.4         1955-78           Spring Creek near Beaver Hill, CO         09149400         41.6         1977-81           Dry Creek at Begonia Road near Delta, CO         09149400         7.6         1978-81		09141500	11.3	1939-46
Surface Creek at Eckert, CO         09144000         43.6         1939-51           Tongue Creek at Cory, CO         09144200         197         1957-68           Red Mountain Creek near Ironton, CO         09144500         18.1         1947-55           Uncompalgre River At Ouray, CO         0914500         42.0         1908,           Canyon Creek at Ouray, CO         09145500         25.8         1910-14           Uncompalgre River below Ouray, CO         0914600         75.2         1913-29           West Fork Dallas Creek near Ridgway, CO         0914600         75.2         1913-29           West Fork Dallas Creek near Ridgway, CO         09146500         16.8         1947-53           Beaver Creek near Ridgway, CO         09146500         11.8         1960-70           Beaver Creek near Ridgway, CO         09146500         8.17         1955-67           East Fork Dallas Creek near Noel, CO         09146600         8.17         1955-67           Beaver Creek near Ridgway, CO         09146600         8.17         1955-67           Beaver Creek near Ridgway, CO         09146600         8.17         1955-67           Beaver Creek near Ridgway, CO         09146600         8.17         1955-67           Dreat Creek near Ridgway, CO         0914400 <td></td> <td>09142000</td> <td>52.2</td> <td></td>		09142000	52.2	
Tongue Creek at Cory, CO         09144200         197         1957–68, 1976–87, 1976–87, 1976–87           Red Mountain Creek near Ironton, CO         09144500         18.1         1947–55           Uncompahgre River At Ouray, CO         09145000         42.0         1908, 1910–24           Canyon Creek at Ouray, CO         09145000         75.2         1913–29           Uncompahgre River below Ouray, CO         09146000         75.2         1913–29           West Fork Dallas Creek near Ridgway, CO         0914600         14.1         1955–70           East Fork Dallas Creek near Ridgway, CO         09146500         16.8         1947–53           Beaver Creek near Ridgway, CO         09146500         16.8         1947–53           Pleasant Valley Creek near Noel, CO         09146600         8.17         1955–67           Cow Creek near Ridgway, CO         09146600         8.17         1955–67           Cow Creek near Ridgway, CO         09149400         41.6         1977–81           Spring Creek near Beaver Hill, CO         09149400         41.6         1977–81           Spring Creek near Montrose, CO         09149480         175         1996–98           Potter Creek near Columbine Pass, CO         09149900         7.0         1980–81           Potter Creek		09144000	43.6	1939–51
Red Mountain Creek near Ironton, CO         1976-87           Red Mountain Creek near Ironton, CO         09144500         18.1         1947-55           Uncompahgre River At Ouray, CO         09145000         42.0         1908, 1910-24           Canyon Creek at Ouray, CO         09145500         25.8         1910-15           Uncompahgre River below Ouray, CO         09146000         75.2         1913-29           West Fork Dallas Creek near Ridgway, CO         09146500         14.1         1955-70           East Fork Dallas Creek near Ridgway, CO         09146500         12.2         1960-76           Beaver Creek near Ridgway, CO         09146500         8.17         1955-67           Cow Creek near Ridgway, CO         09146600         8.17         1955-67           Cow Creek near Ridgway, CO         09149400         45.4         1955-73           Spring Creek near Beaver Hill, CO         09149400         41.6         1977-81           Spring Creek near Montrose, CO         09149400         41.6         1977-81           Spring Creek near Montrose, CO         09149400         7.1         1980-81           Potter Creek near Columbine Pass, CO         09149400         7.1         1980-81           Routier Creek near Delta, CO         09149990         7.10	· · · · · · · · · · · · · · · · · · ·	09144200		1957–68,
Uncompahgre River At Ouray, CO         09145000         42.0         1908, 1910-24           Canyon Creek at Ouray, CO         09145500         25.8         1910-15           Uncompahgre River below Ouray, CO         09146000         75.2         1913-29           West Fork Dallas Creek near Ridgway, CO         09146500         14.1         1955-70           East Fork Dallas Creek near Ridgway, CO         09146500         16.8         1947-53           Beaver Creek near Ridgway, CO         09146500         8.17         1955-67           Cow Creek near Ridgway, CO         09146600         8.17         1955-67           Cow Creek near Ridgway, CO         09149600         8.17         1955-67           Cow Creek near Ridgway, CO         09149600         41.6         1977-81           Spring Creek near Beaver Hill, CO         09149400         41.6         1977-81           Spring Creek near Bown GO         09149400         41.6         1977-81           Dry Creek at Begonia Road near Delta, CO         09149400         7.6         1977-81           Dry Creek at Begonia Road near Delta, CO         09149900         7.10         1980-81           Potter Creek near Columbine Pass, CO         09149910         26.0         1980-81           Potter Creek near Olathe, CO <td></td> <td></td> <td></td> <td></td>				
Uncompahgre River At Ouray, CO         09145000         42.0         1908, 1910-24           Canyon Creek at Ouray, CO         09145500         25.8         1910-12           Uncompahgre River below Ouray, CO         09146000         75.2         1913-29           West Fork Dallas Creek near Ridgway, CO         09146500         14.1         1955-70           East Fork Dallas Creek near Ridgway, CO         09146500         16.8         1947-53           Beaver Creek near Ridgway, CO         09146500         8.17         1950-67           Beaver Beaver Ridgway, CO         09146600         8.17         1955-67           Cow Creek near Ridgway, CO         09149600         8.17         1955-73           Spring Creek near Beaver Hill, CO         09149400         41.6         1977-81           Spring Creek near Beaver Hill, CO         09149400         41.6         1977-81           Dry Creek at Begonia Road near Delta, CO         09149400         41.6         1977-81           Dry Creek at Begonia Road near Delta, CO         09149900         7.10         1980-81           Potter Creek near Columbine Pass, CO         09149910         26.0         1980-81           Roubideau Creek at mouth near Delta, CO         09150500         242         1938-54           Roubideau C	Red Mountain Creek near Ironton, CO	09144500	18.1	1947–55
Canyon Creek at Ouray, CO 99145500 25.8 1910-15 Uncompalgre River below Ouray, CO 99146000 75.2 1913-29 West Fork Dallas Creek near Ridgway, CO 99146400 14.1 1955-70 East Fork Dallas Creek near Ridgway, CO 99146500 16.8 1947-53 1960-70 East Fork Dallas Creek near Ridgway, CO 99146500 11.2 1960-70 East Fork Dallas Creek near Ridgway, CO 99146500 12.2 1960-68 Pleasant Valley Creek near Ridgway, CO 99146600 8.17 1955-67 Cow Creek near Ridgway, CO 99147100 45.4 1955-73 Cow Creek near Ridgway, CO 99147100 45.4 1955-73 Spring Creek near Beaver Hill, CO 99149400 41.6 1977-81 Spring Creek near Beaver Hill, CO 99149480 175 1996-98 Potter Creek near Columbine Pass, CO 99149480 175 1996-98 Potter Creek near Columbine Pass, CO 9914990 7.10 1980-81 Potter Creek near Columbine Pass, CO 9914990 7.10 1980-81 Roubideau Creek at mouth near Delta, CO 99150500 242 1938-54, 1976-83 Escalante Creek near Delta, CO 99150500 242 1938-54, 1976-83 Escalante Creek near Delta, CO 99152500 417 2000-2003 Orchard Mesa Drain at Grand Junction, CO 99152500 4.17 2000-2003 Orchard Mesa Drain at Grand Junction, CO 99152650 24.8 1973-83 Colorado River near Fruita, CO 9915200 15.4 1973-83 Colorado River near Fruita, CO 99153270 15.7 1973-83 Colorado River near Fruita, CO 99153270 15.7 1973-83 Colorado River near Fruita, CO 99153270 15.7 1973-83 Colorado River near Fruita, CO 99153300 29.3 1973-83 Colorado River near Fruita, CO 99153300 29.3 1973-83 Colorado River near Fruita, CO 9915300 29.3 1973-83 Colorado River near Colorado CO 9915300 29.3 1973-83 Colorado River near Colorado CO 9915300 29.3 1973-83 Colorado River near Colorado CO 9915300 29.3 1973-83 Colorado River near Fruita, CO 9915300 29.3 1973-83 Colorado River near Carbonera, CO 9915300 29.3 1973-82 East Salt Creek near Carbonera, CO 9915300 6.5 1 1973-82 East Salt Creek near Mack, CO 99163300 95.6 1973-82 East Salt Creek near Mack, CO 99163300 436 1973-83 Hay Press Creek above Fruita Reservoir 3 near Glade Park, CO 99163300 436 1973-83 Hay Press Creek above Fruita Reservoir 3 near Glade		09145000		
Canyon Creek at Ouray, CO         09145500         25.8         1910-15           Uncompagner River below Ouray, CO         09146000         75.2         1913-29           West Fork Dallas Creek near Ridgway, CO         09146400         14.1         1955-70           East Fork Dallas Creek near Ridgway, CO         09146500         16.8         1947-53           Beaver Creek near Ridgway, CO         09146550         12.2         1960-70           Beaver Creek near Ridgway, CO         09146600         8.17         1955-67           Cow Creek near Ridgway, CO         09147100         45.4         1955-73           Spring Creek near Beaver Hill, CO         09149400         41.6         1977-81           Spring Creek near Montrose, CO         09149420         76.6         1977-81           Dry Creek at Begonia Road near Delta, CO         09149420         76.6         1977-81           Dry Creek near Columbine Pass, CO         09149900         7.10         1980-98           Potter Creek near Columbine Pass, CO         09149910         26.0         1988-81           Potter Creek near Delta, CO         0915000         242         1938-54,           Botter Creek at mouth near Delta, CO         0915100         209         1922-23,           Escalante Creek near Plat, CO<	r . S			
Uncompahgre River below Ouray, CO West Fork Dallas Creek near Ridgway, CO Bast Fork Dallas Creek near Ridgway, CO Beaver	Canvon Creek at Ouray, CO	09145500	25.8	
West Fork Dallas Creek near Ridgway, CO         09146400         14.1         1955-70           East Fork Dallas Creek near Ridgway, CO         09146500         16.8         1947-53           Beaver Creek near Ridgway, CO         09146550         12.2         1960-68           Pleasant Valley Creek near Roel, CO         09146600         8.17         1955-67           Cow Creek near Ridgway, CO         09147100         45.4         1955-73           Spring Creek near Beaver Hill, CO         09149400         41.6         1977-81           Spring Creek near Boaver Hill, CO         09149400         41.6         1977-81           Spring Creek near Montrose, CO         09149480         175         1996-98           Potter Creek near Columbine Pass, CO         09149900         7.10         1980-81           Potter Creek near Columbine Pass, CO         09149900         7.10         1980-81           Roubideau Creek at mouth near Delta, CO         09150500         242         1938-54           Rescalante Creek near Delta, CO         09151500         299         1922-23,           Roubideau Creek at Whitewater, CO         0915200         61.9         1917-82           Callow Creek near Whitewater, CO         0915200         3.70         1973-83           Leach Creek at D				
East Fork Dallas Creek near Ridgway, CO         09146500         16.8         1947-53 1960-70           Beaver Creek near Ridgway, CO         09146550         12.2         1960-68           Pleasant Valley Creek near Noel, CO         09146600         8.17         1955-67           Cow Creek near Ridgway, CO         09147100         45.4         1955-73           Spring Creek near Beaver Hill, CO         09149400         41.6         1977-81           Spring Creek near Montrose, CO         09149420         76.6         1977-81           Dry Creek at Begonia Road near Delta, CO         09149940         7.6         1977-81           Dry Creek at Begonia Road near Delta, CO         09149900         7.10         1980-81           Potter Creek near Columbine Pass, CO         09149910         26.0         1980-81           Potter Creek near Olathe, CO         09150500         242         1938-54           Ever at Teek near Delta, CO         09150500         299         1922-23           Escalante Creek near Delta, CO         09152000         61.9         1976-83           Escalante Creek near Whitewater, CO         09152000         61.9         1973-83           Callow Creek at Whitewater, CO         09152000         3.70         1973-83           Leach Creek at Durha	* *			
Beaver Creek near Ridgway, CO				
Beaver Creek near Ridgway, CO         09146550         12.2         1960–68           Pleasant Valley Creek near Noel, CO         09146600         8.17         1955–67           Cow Creek near Ridgway, CO         09147100         45.4         1955–67           Cow Creek near Ridgway, CO         09149400         41.6         1977–81           Spring Creek near Beaver Hill, CO         09149400         41.6         1977–81           Dry Creek at Begonia Road near Delta, CO         09149480         175         1996–98           Potter Creek near Columbine Pass, CO         09149900         7.10         1980–81           Potter Creek near Columbine Pass, CO         09149900         7.10         1980–81           Potter Creek near Columbine Pass, CO         09149900         7.10         1980–81           Potter Creek near Columbine Pass, CO         09149900         7.00         1980–81           Roubideau Creek at mouth near Delta, CO         09150500         242         1938–54           Roubideau Creek at mouth near Delta, CO         0915100         209         1922–23           Escalante Creek near Pulta, CO         0915200         61.9         1917–82           Callow Creek at Whitewater, CO         09152000         61.9         19173–83           Leach Creek at D				
Pleasant Valley Creek near Noel, CO         09146600         8.17         1955–67           Cow Creek near Ridgway, CO         09147100         45.4         1955–73           Spring Creek near Beaver Hill, CO         09149400         41.6         1977–81           Spring Creek near Montrose, CO         09149420         76.6         1977–81           Dry Creek at Begonia Road near Delta, CO         09149480         175         1996–98           Potter Creek near Columbine Pass, CO         09149900         7.10         1980–81           Potter Creek near Olathe, CO         09149910         26.0         1980–81           Roubideau Creek at mouth near Delta, CO         09150500         242         1938–54,           Escalante Creek near Delta, CO         09151500         209         1922–23,           1970–89         1970–89         1970–89           Kannah Creek near Whitewater, CO         09152000         61.9         1917–82           Callow Creek at Whitewater, CO         09152520         4.17         2000–2003           Orchard Mesa Drain at Grand Junction, CO         09152600         3.70         1973–83           Leach Creek at Durham, CO         09152600         15.4         1973–83           Adobe Creek near Fruita, CO         09153000         17,	Beaver Creek near Ridgway, CO	09146550	12.2	
Cow Creek near Ridgway, CO         09147100         45.4         1955-73           Spring Creek near Beaver Hill, CO         09149400         41.6         1977-81           Spring Creek near Montrose, CO         09149420         76.6         1977-81           Dry Creek at Begonia Road near Delta, CO         09149480         175         1996-98           Potter Creek near Columbine Pass, CO         09149900         7.10         1980-81           Potter Creek near Olathe, CO         09149910         26.0         1980-81           Roubideau Creek at mouth near Delta, CO         09150500         242         1938-54,           Escalante Creek near Delta, CO         09151500         209         1922-23,           1976-89           Kannah Creek near Whitewater, CO         09152000         61.9         1917-82           Callow Creek at Whitewater, CO         09152500         3.70         1973-83           Leach Creek at Durham, CO         09152600         3.70         1973-83           Adobe Creek at Tourham, CO         09152000         15.4         1973-83           Colorado River near Fruita, CO         09153000         17,100         1907-23           Big Salt Wash at Fruita, CO         09153270         142         1973-77           Reed Wa				1955–67
Spring Creek near Beaver Hill, CO         09149400         41.6         1977-81           Spring Creek near Montrose, CO         09149420         76.6         1977-81           Dry Creek at Begonia Road near Delta, CO         09149480         175         1996-98           Potter Creek near Columbine Pass, CO         09149900         7.10         1980-81           Potter Creek near Olathe, CO         09149900         26.0         1980-81           Roubideau Creek at mouth near Delta, CO         09150500         242         1938-54,           Roubideau Creek at mouth near Delta, CO         09152000         209         1922-23,           Escalante Creek near Delta, CO         09152000         61.9         1917-82           Kannah Creek near Whitewater, CO         09152000         61.9         1917-82           Callow Creek at Whitewater, CO         09152520         4.17         2000-2003           Orchard Mesa Drain at Grand Junction, CO         09152600         3.70         1973-83           Leach Creek at Durham, CO         09152600         3.70         1973-83           Adobe Creek near Fruita, CO         09153000         15.4         1973-83           Colorado River near Fruita, CO         09153000         17,100         1907-23           Big Salt Wash near Ma				
Spring Creek near Montrose, CO         09149420         76.6         1977-81           Dry Creek at Begonia Road near Delta, CO         09149480         175         1996-98           Potter Creek near Columbine Pass, CO         09149900         7.10         1980-81           Potter Creek near Olathe, CO         09149910         26.0         1980-81           Roubideau Creek at mouth near Delta, CO         09150500         242         1938-54,           Escalante Creek near Delta, CO         09151500         209         1922-23,           1970-89           Kannah Creek near Whitewater, CO         09152000         61.9         1917-82           Callow Creek at Whitewater, CO         09152520         4.17         2000-2003           Orchard Mesa Drain at Grand Junction, CO         09152600         3.70         1973-83           Leach Creek at Durham, CO         09152600         24.8         1973-83           Adobe Creek near Fruita, CO         09152900         15.4         1973-83           Colorado River near Fruita, CO         09153200         17,100         1907-23           Big Salt Wash at Fruita, CO         09153200         15.7         1973-82           Reed Wash near Mack, CO         09153300         29.3         1973-83 <td< td=""><td><del>-</del> -</td><td></td><td></td><td></td></td<>	<del>-</del> -			
Dry Creek at Begonia Road near Delta, CO         09149480         175         1996–98           Potter Creek near Columbine Pass, CO         09149900         7.10         1980–81           Potter Creek near Olathe, CO         09149910         26.0         1980–81           Roubideau Creek at mouth near Delta, CO         09150500         242         1938–54,           1976–83         1976–83           Escalante Creek near Delta, CO         09151500         209         1922–23,           1970–89         1970–89           Kannah Creek near Whitewater, CO         09152000         61.9         1917–82           Callow Creek at Whitewater, CO         09152520         4.17         2000–2003           Orchard Mesa Drain at Grand Junction, CO         09152600         3.70         1973–83           Leach Creek at Durham, CO         09152650         24.8         1973–83           Adobe Creek near Fruita, CO         09152900         15.4         1973–83           Adobe Creek near Fruita, CO         09153000         17,100         1907–23           Big Salt Wash at Fruita, CO         09153290         15.7         1975–2000           Reed Wash near Mack, CO         09153300         29.3         1973–83           West Salt Creek near Carbonera, CO		09149420		
Potter Creek near Columbine Pass, CO         09149900         7.10         1980-81           Potter Creek near Olathe, CO         09149910         26.0         1980-81           Roubideau Creek at mouth near Delta, CO         09150500         242         1938-54,           1976-83         1976-83         1976-83           Escalante Creek near Delta, CO         09151500         209         1922-23,           1970-89         Kannah Creek near Whitewater, CO         09152000         61.9         1917-82           Callow Creek at Whitewater, CO         09152520         4.17         2000-2003           Orchard Mesa Drain at Grand Junction, CO         09152600         3.70         1973-83           Leach Creek at Durham, CO         09152600         3.70         1973-83           Adobe Creek near Fruita, CO         09152900         15.4         1973-83           Adobe Creek near Fruita, CO         09153000         17,100         1907-23           Big Salt Wash at Fruita, CO         09153200         15.7         1973-83           Reed Wash near Mack, CO         09153200         15.7         1973-83           West Salt Creek near Carbonera, CO         09153300         29.3         1973-83           West Salt Creek near Mack, CO         09163300 <td< td=""><td></td><td></td><td></td><td></td></td<>				
Potter Creek near Olathe, CO         09149910         26.0         1980-81           Roubideau Creek at mouth near Delta, CO         09150500         242         1938-54, 1976-83           Escalante Creek near Delta, CO         09151500         209         1922-23, 1970-89           Kannah Creek near Whitewater, CO         09152000         61.9         1917-82           Callow Creek at Whitewater, CO         09152520         4.17         2000-2003           Orchard Mesa Drain at Grand Junction, CO         09152600         3.70         1973-83           Leach Creek at Durham, CO         09152600         24.8         1973-83           Adobe Creek near Fruita, CO         09152900         15.4         1973-83           Adobe Creek near Fruita, CO         09153000         17,100         1907-23           Big Salt Wash at Fruita, CO         09153270         142         1973-77           Reed Wash near Mack, CO         09153300         29.3         1973-83           West Salt Creek near Carbonera, CO         09153300         29.3         1973-83           West Salt Creek near Mack, CO         09153300         168         1973-82           West Salt Creek near Mack, CO         09163310         168         1973-82           East Salt Creek near Mack, CO <td< td=""><td>•</td><td></td><td>7.10</td><td></td></td<>	•		7.10	
Roubideau Creek at mouth near Delta, CO       09150500       242       1938–54, 1976–83         Escalante Creek near Delta, CO       09151500       209       1922–23, 1970–89         Kannah Creek near Whitewater, CO       09152000       61.9       1917–82         Callow Creek at Whitewater, CO       09152520       4.17       2000–2003         Orchard Mesa Drain at Grand Junction, CO       09152600       3.70       1973–83         Leach Creek at Durham, CO       09152650       24.8       1973–83         Adobe Creek near Fruita, CO       09152900       15.4       1973–83         Colorado River near Fruita, CO       09153200       17,100       1907–23         Big Salt Wash at Fruita, CO       09153270       142       1973–77         Reed Wash near Mack, CO       09153300       29.3       1973–83         West Salt Creek near Carbonera, CO       09153300       29.3       1973–83         West Salt Creek near Mack, CO       09153400       168       1973–83         Badger Wash near Mack, CO       09163300       6.51       1973–82         East Salt Creek near Mack, CO       09163310       197       1973–82         Mack Wash near Mack, CO       09163400       15.9       1973–82         Salt Creek near Mack, CO<	•			
1976-83         Escalante Creek near Delta, CO       09151500       209       1922-23, 1970-89         Kannah Creek near Whitewater, CO       09152000       61.9       1917-82         Callow Creek at Whitewater, CO       09152520       4.17       2000-2003         Orchard Mesa Drain at Grand Junction, CO       09152600       3.70       1973-83         Leach Creek at Durham, CO       09152600       24.8       1973-83         Adobe Creek near Fruita, CO       09152900       15.4       1973-83         Colorado River near Fruita, CO       09153000       17,100       1907-23         Big Salt Wash at Fruita, CO       09153270       142       1973-77         Reed Wash near Mack, CO       09153290       15.7       1975-2000         Reed Wash near Loma, CO       09153300       29.3       1973-83         West Salt Creek near Carbonera, CO       09153300       29.3       1973-83         West Salt Creek near Mack, CO       09153400       168       1973-83         Badger Wash near Mack, CO       09163310       197       1973-82         East Salt Creek near Mack, CO       09163340       15.9       1973-82         Mack Wash near Mack, CO       09163490       436       1973-83				
Escalante Creek near Delta, CO       09151500       209       1922–23, 1970–89         Kannah Creek near Whitewater, CO       09152000       61.9       1917–82         Callow Creek at Whitewater, CO       09152520       4.17       2000–2003         Orchard Mesa Drain at Grand Junction, CO       09152600       3.70       1973–83         Leach Creek at Durham, CO       09152650       24.8       1973–83         Adobe Creek near Fruita, CO       09152900       15.4       1973–83         Colorado River near Fruita, CO       09153000       17,100       1907–23         Big Salt Wash at Fruita, CO       09153270       142       1973–77         Reed Wash near Mack, CO       09153290       15.7       1975–2000         Reed Wash near Loma, CO       09153300       29.3       1973–83         West Salt Creek near Carbonera, CO       09153300       29.3       1973–83         West Salt Creek near Mack, CO       09153400       168       1973–83         Badger Wash near Mack, CO       09163050       6.51       1973–82         East Salt Creek near Mack, CO       09163310       197       1973–82         Mack Wash near Mack, CO       09163490       436       1973–83         Balt Creek near Mack, CO       09163490	,,			
Kannah Creek near Whitewater, CO         09152000         61.9         1917–82           Callow Creek at Whitewater, CO         09152520         4.17         2000–2003           Orchard Mesa Drain at Grand Junction, CO         09152600         3.70         1973–83           Leach Creek at Durham, CO         09152650         24.8         1973–83           Adobe Creek near Fruita, CO         09152900         15.4         1973–83           Colorado River near Fruita, CO         09153000         17,100         1907–23           Big Salt Wash at Fruita, CO         09153270         142         1973–77           Reed Wash near Mack, CO         09153300         29.3         1975–2000           Reed Wash near Loma, CO         09153300         29.3         1973–83           West Salt Creek near Carbonera, CO         09153300         29.3         1973–83           West Salt Creek near Mack, CO         09153400         168         1973–83           Badger Wash near Mack, CO         09163050         6.51         1973–82           East Salt Creek near Mack, CO         09163310         197         1973–82           Mack Wash near Mack, CO         09163340         15.9         1973–82           Salt Creek near Mack, CO         09163490         436	Escalante Creek near Delta, CO	09151500	209	
Kannah Creek near Whitewater, CO0915200061.91917–82Callow Creek at Whitewater, CO091525204.172000–2003Orchard Mesa Drain at Grand Junction, CO091526003.701973–83Leach Creek at Durham, CO0915265024.81973–83Adobe Creek near Fruita, CO0915290015.41973–83Colorado River near Fruita, CO0915300017,1001907–23Big Salt Wash at Fruita, CO091532701421973–77Reed Wash near Mack, CO0915329015.71975–2000Reed Wash near Loma, CO0915330029.31973–83West Salt Creek near Carbonera, CO0915330029.31973–83West Salt Creek near Mack, CO091534001681973–83Badger Wash near Mack, CO091630506.511973–82East Salt Creek near Mack, CO091633101971973–82Mack Wash near Mack, CO0916340015.91973–82Salt Creek near Mack, CO091634904361973–83Hay Press Creek above Fruita Reservoir 3 near Glade Park, CO091635700.771983–88				
Callow Creek at Whitewater, CO       09152520       4.17       2000–2003         Orchard Mesa Drain at Grand Junction, CO       09152600       3.70       1973–83         Leach Creek at Durham, CO       09152650       24.8       1973–83         Adobe Creek near Fruita, CO       09152900       15.4       1973–83         Colorado River near Fruita, CO       09153000       17,100       1907–23         Big Salt Wash at Fruita, CO       09153270       142       1973–77         Reed Wash near Mack, CO       09153290       15.7       1975–2000         Reed Wash near Loma, CO       09153300       29.3       1973–83         West Salt Creek near Carbonera, CO       09153300       95.6       1979–82         West Salt Creek near Mack, CO       09153400       168       1973–83         Badger Wash near Mack, CO       09163050       6.51       1973–82         East Salt Creek near Mack, CO       09163340       15.9       1973–82         Mack Wash near Mack, CO       09163490       436       1973–83         Hay Press Creek above Fruita Reservoir 3 near Glade Park, CO       09163570       0.77       1983–88	Kannah Creek near Whitewater, CO	09152000	61.9	
Orchard Mesa Drain at Grand Junction, CO       09152600       3.70       1973–83         Leach Creek at Durham, CO       09152650       24.8       1973–83         Adobe Creek near Fruita, CO       09152900       15.4       1973–83         Colorado River near Fruita, CO       09153000       17,100       1907–23         Big Salt Wash at Fruita, CO       09153270       142       1973–77         Reed Wash near Mack, CO       09153290       15.7       1975–2000         Reed Wash near Loma, CO       09153300       29.3       1973–83         West Salt Creek near Carbonera, CO       09153330       95.6       1979–82         West Salt Creek near Mack, CO       09153400       168       1973–83         Badger Wash near Mack, CO       09163050       6.51       1973–82         East Salt Creek near Mack, CO       09163310       197       1973–82         Mack Wash near Mack, CO       09163490       436       1973–83         Hay Press Creek above Fruita Reservoir 3 near Glade Park, CO       09163570       0.77       1983–88	,			
Leach Creek at Durham, CO0915265024.81973-83Adobe Creek near Fruita, CO0915290015.41973-83Colorado River near Fruita, CO0915300017,1001907-23Big Salt Wash at Fruita, CO091532701421973-77Reed Wash near Mack, CO0915329015.71975-2000Reed Wash near Loma, CO0915330029.31973-83West Salt Creek near Carbonera, CO0915333095.61979-82West Salt Creek near Mack, CO091534001681973-83Badger Wash near Mack, CO091630506.511973-82East Salt Creek near Mack, CO091633101971973-82Mack Wash near Mack, CO0916334015.91973-82Salt Creek near Mack, CO091634904361973-83Hay Press Creek above Fruita Reservoir 3 near Glade Park, CO091635700.771983-88	,		3.70	
Adobe Creek near Fruita, CO0915290015.41973-83Colorado River near Fruita, CO0915300017,1001907-23Big Salt Wash at Fruita, CO091532701421973-77Reed Wash near Mack, CO0915329015.71975-2000Reed Wash near Loma, CO0915330029.31973-83West Salt Creek near Carbonera, CO0915333095.61979-82West Salt Creek near Mack, CO091534001681973-83Badger Wash near Mack, CO091630506.511973-82East Salt Creek near Mack, CO091633101971973-82Mack Wash near Mack, CO0916334015.91973-82Salt Creek near Mack, CO091634904361973-83Hay Press Creek above Fruita Reservoir 3 near Glade Park, CO091635700.771983-88				
Colorado River near Fruita, CO       09153000       17,100       1907–23         Big Salt Wash at Fruita, CO       09153270       142       1973–77         Reed Wash near Mack, CO       09153290       15.7       1975–2000         Reed Wash near Loma, CO       09153300       29.3       1973–83         West Salt Creek near Carbonera, CO       09153330       95.6       1979–82         West Salt Creek near Mack, CO       09153400       168       1973–83         Badger Wash near Mack, CO       09163050       6.51       1973–82         East Salt Creek near Mack, CO       09163310       197       1973–82         Mack Wash near Mack, CO       09163340       15.9       1973–82         Salt Creek near Mack, CO       09163490       436       1973–83         Hay Press Creek above Fruita Reservoir 3 near Glade Park, CO       09163570       0.77       1983–88		09152900	15.4	1973-83
Big Salt Wash at Fruita, CO       09153270       142       1973–77         Reed Wash near Mack, CO       09153290       15.7       1975–2000         Reed Wash near Loma, CO       09153300       29.3       1973–83         West Salt Creek near Carbonera, CO       09153330       95.6       1979–82         West Salt Creek near Mack, CO       09153400       168       1973–83         Badger Wash near Mack, CO       09163050       6.51       1973–82         East Salt Creek near Mack, CO       09163310       197       1973–82         Mack Wash near Mack, CO       09163340       15.9       1973–82         Salt Creek near Mack, CO       09163490       436       1973–83         Hay Press Creek above Fruita Reservoir 3 near Glade Park, CO       09163570       0.77       1983–88		09153000	17,100	1907-23
Reed Wash near Mack, CO       09153290       15.7       1975–2000         Reed Wash near Loma, CO       09153300       29.3       1973–83         West Salt Creek near Carbonera, CO       09153330       95.6       1979–82         West Salt Creek near Mack, CO       09153400       168       1973–83         Badger Wash near Mack, CO       09163050       6.51       1973–82         East Salt Creek near Mack, CO       09163310       197       1973–82         Mack Wash near Mack, CO       09163340       15.9       1973–82         Salt Creek near Mack, CO       09163490       436       1973–83         Hay Press Creek above Fruita Reservoir 3 near Glade Park, CO       09163570       0.77       1983–88			, , , , , , , , , , , , , , , , , , ,	
Reed Wash near Loma, CO       09153300       29.3       1973–83         West Salt Creek near Carbonera, CO       09153330       95.6       1979–82         West Salt Creek near Mack, CO       09153400       168       1973–83         Badger Wash near Mack, CO       09163050       6.51       1973–82         East Salt Creek near Mack, CO       09163310       197       1973–82         Mack Wash near Mack, CO       09163340       15.9       1973–82         Salt Creek near Mack, CO       09163490       436       1973–83         Hay Press Creek above Fruita Reservoir 3 near Glade Park, CO       09163570       0.77       1983–88				
West Salt Creek near Carbonera, CO       09153330       95.6       1979–82         West Salt Creek near Mack, CO       09153400       168       1973–83         Badger Wash near Mack, CO       09163050       6.51       1973–82         East Salt Creek near Mack, CO       09163310       197       1973–82         Mack Wash near Mack, CO       09163340       15.9       1973–82         Salt Creek near Mack, CO       09163490       436       1973–83         Hay Press Creek above Fruita Reservoir 3 near Glade Park, CO       09163570       0.77       1983–88				
West Salt Creek near Mack, CO       09153400       168       1973–83         Badger Wash near Mack, CO       09163050       6.51       1973–82         East Salt Creek near Mack, CO       09163310       197       1973–82         Mack Wash near Mack, CO       09163340       15.9       1973–82         Salt Creek near Mack, CO       09163490       436       1973–83         Hay Press Creek above Fruita Reservoir 3 near Glade Park, CO       09163570       0.77       1983–88				
Badger Wash near Mack, CO       09163050       6.51       1973–82         East Salt Creek near Mack, CO       09163310       197       1973–82         Mack Wash near Mack, CO       09163340       15.9       1973–82         Salt Creek near Mack, CO       09163490       436       1973–83         Hay Press Creek above Fruita Reservoir 3 near Glade Park, CO       09163570       0.77       1983–88	•			
East Salt Creek near Mack, CO       09163310       197       1973–82         Mack Wash near Mack, CO       09163340       15.9       1973–82         Salt Creek near Mack, CO       09163490       436       1973–83         Hay Press Creek above Fruita Reservoir 3 near Glade Park, CO       09163570       0.77       1983–88	*			
Mack Wash near Mack, CO       09163340       15.9       1973–82         Salt Creek near Mack, CO       09163490       436       1973–83         Hay Press Creek above Fruita Reservoir 3 near Glade Park, CO       09163570       0.77       1983–88	_			
Salt Creek near Mack, CO         09163490         436         1973–83           Hay Press Creek above Fruita Reservoir 3 near Glade Park, CO         09163570         0.77         1983–88	*			
Hay Press Creek above Fruita Reservoir 3 near Glade Park, CO 09163570 0.77 1983–88	·			
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The following continuous-record surface-water discharge or stage-only stations (gaging stations) in Colorado have been discontinued or converted to partial-record stations. Daily streamflow or stage records were collected and published for the period of record, expressed in water years, shown for each station.

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Lost Canyon Creek at Dolores, CO	09167000	73.5	1922–27,
•			1941–48
Plateau Creek near mouth near Dolores, CO	09167450	83.0	1982-83
Dolores River near McPhee, CO	09167500	817	1938-52
Disappointment Creek near Dove Creek, CO	09168100	147	1957-86
Dolores River near Slick Rock, CO	09168730	1,432	1997-2003
Big Gypsum Creek near Slick Rock, CO	09168800	43.9	1979-81
West Paradox Creek near Paradox, CO	09170500	23.6	1944-52
West Paradox Creek above Bedrock, CO	09170800	53.3	1971–73
West Paradox Creek near Bedrock, CO	09171000	55.3	1944-52
San Miguel River near Telluride, CO	09171200	42.8	1959–65
San Miguel River at Fall Creek, CO	09171500	167	1895–99,
,			1910
Fall Creek near Fall Creek, CO	09172000	33.4	1941–59
Leopard Creek at Noel, CO	09172100	9.03	1955–63
Saltado Creek near Norwood, CO	09172600		1976–80
Gurley Ditch near Norwood, CO	09172700		1976–80
West Beaver Creek near Norwood, CO	09172800		1976–80
Beaver Creek near Norwood, CO	09173000	40.6	1941–61,
	*******		1962–67,
			1975–81
Horsefly Creek near Sams, CO	09173500	28.8	1942–51
San Miguel River near Nucla, CO	09174000	649	1953–62
Cottonwood Creek near Nucla, CO	09174500	38.8	1942–51
West Naturita Creek at upper station near Norwood, CO	09174700	7.31	1976–80
West Naturita Creek near Norwood, CO	09175000	53.0	1940–52,
West Hataria Creek float Horwood, Co	0)173000	33.0	1975–80
Lilylands Canal near Norwood, CO	09175200		1976–80
Maverick Draw near Norwood, CO	09175400	41.3	1976–80
San Miguel River at Naturita, CO	09175500	1,069	1917–29,
Sun Miguel Moral de Mataria, CO	0)173300	1,000	1940–81
Tabeguache Creek near Nucla, CO	09176500	16.9	1946–53
Taylor Creek near Gateway, CO	09177500	15.4	1944–67
Deep Creek near Paradox, CO	09178000	4.31	1944–53
Geyser Creek near Paradox, CO	09178500	7.51	1944–51
Roc Creek near Uranium, CO	09179000	75.8	1944–52
Salt Creek near Gateway, CO	09179200	31.2	1979–85
Dolores River at Gateway, CO	09179500	4,347	1936–54
Vermillion Creek at Ink Springs Ranch, CO	09235450	816	1977–81
Vermillion Creek below Douglas Draw, near Lodore, CO	09235490	918	1995
Bear River near Toponas, CO	09236000	22.1	1952–65,
Deal River near Toponas, CO	07230000	22.1	1952-05,
Bear River near Yampa, CO	09236500	41.6	1939–44

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Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Service Creek near Oak Creek, CO	09237800	38.2	1965–73
Oak Creek near Oak Creek, CO	09238000	14.0	1952-57
North Fork Walton Creek near Rabbit Ears Pass, CO	09238300	0.71	1972–75
Fishhook Creek near Rabbit Ears Pass, CO	09238350	6.45	1972-75
Walton Creek near Steamboat Springs, CO	09238500	42.4	1920–22,
			1965–73,
			1978-87
Fish Creek Tributary above Long Lake near Buffalo Pass, CO	09238700	0.43	1984–86
Long Lake Inlet near Buffalo Pass, CO	09238705	0.71	1987-95
Fish Creek Tributary below Long Lake, near Buffalo Pass, CO	09238710	1.03	1985-95
Middle Fork Fish Creek near Buffalo Pass, CO	09238750	1.37	1985-95
Granite Creek near Buffalo Pass, CO	09238770	2.82	1985-95
Middle Fork Fish Creek tributary, below Fish Creek Reservoir, CO	09238800	4.78	1984-94
Spring Creek near Steamboat Springs, CO	09239400	6.96	1965-72
Elk River at Hinman Park, CO	09240500	61.0	1911-18
South Fork Elk River near Clark, CO	09240800	33.7	1966-73
Elk River above Clark, CO	09240900	122	1988–93,
			1998-2003
Elk River at Clark, CO	09241000	216	1910-22,
			1930–91,
			1998-2003
Middle Creek near Oak Creek, CO	09243700	23.5	1976–81,
			1982-2001
Foidel Creek near Oak Creek, CO	09243800	8.61	1976–81,
			82–83,
			1985–2001
Foidel Creek at mouth near Oak Creek, Co	09243900	17.5	1976–81,
			1982–2001
Fish Creek near Milner, CO	09244100	34.5	1955–73
Grassy Creek near Mount Harris, CO	09244300	25.8	1958–66
Yampa River near Hayden, CO	09244400	1,390	1965–72
Gibralter Canal near Hayden, CO	09244405		1965–72
Yampa River below diversion near Hayden, CO	09244410	1,390	1965–86
Sage Creek above Sage Creek Reservoir near Hayden, CO	09244415	4.17	1980–83
Watering Trough Gulch near Hayden, CO	09244460	2.65	1977–81
Hubberson Gulch near Hayden, CO	09244464	8.08	1977–81
Stokes Gulch near Hayden, CO	09244470	13.6	1976–81
Elkhead Creek near Clark, CO	09244500	45.4	1942–44, 1958–73
Elkhead Creek near Elkhead, CO	09245000	64.2	1953–96
North Fork Elkhead Creek near Elkhead, CO	09245500	21.0	1910, 1920,
			1958–73
Elkhead Creek near Craig, CO	09246500	249	1906, 1909–18

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		(sq mi)	record (water years)
Fortification Creek near Craig, CO	09246900	34.3	1955–60
Fortification Creek at Craig, CO	09247000	258	1903-06,
			1909–18,
			1943-47
Yampa River at Craig, CO	09247500	1,730	1901–06,
East Fork of Williams Fork near Willow Creek, CO	09248500	96.0	1943-47
East Fork of Williams Fork above Willow Creek, CO	09248600	108	1956-72
East Fork of Williams Fork near Pagoda, CO	09249000	150	1953-71
South Fork of Williams Fork near Pagoda, CO	09249200	46.7	1965-79
Waddle Creek near Pagoda, CO	09249450	5.24	1985-86
Deep Rock Gulch near Hamilton, CO	09249455	3.53	1985-86
Williams Fork at Hamilton, CO	09249500	341	1904–06,
···			1909–27
Morapos Creek near Hamilton, CO	09249700	13.7	1965–67
Williams Fork River at mouth, near Hamilton, CO	09249750	419	1984–2001
Milk Creek near Thornburgh, CO	09250000	65.0	1952–86
Good Spring Creek at Axial, CO	09250400	40.0	1975–78
Wilson Creek above Taylor Creek near Axial, CO	09250507	20.0	1980–92
Taylor Creek at mouth near Axial, CO	09250510	7.22	1975–92
Jubb Creek near Axial, CO	09250610	7.53	1975–81
Morgan Gulch near Axial, CO	09250700	25.6	1980–81
Yampa River above Little Snake River near Maybell, CO	09251100	3,837	1996–2003
Middle Fork Little Snake River near Battle Creek, CO	09251500	120	1912–22
South Fork Little Snake River near Battle Creek, CO	09252500	46.0	1912–22
Battle Creek near Slater, CO	09253500	285	1912–20
,		80.0	
Slater Fork at Baxter Ranch near Slater, CO	09254500	80.0	1911–20,
Litala Carla Diagram Diagram WW	00257000	000	1922
Little Snake River near Dixon, WY	09257000	988	1910–23,
Will C I D' WW	00250000	24.0	1938–97
Willow Creek near Dixon, WY	09258000	24.0	1953–93
Little Snake River above Lily, CO	09259950		1950–69
Sand Wash near Sunbeam, CO	09259990	239	1987–91
North Fork White River below Trappers Lake, CO	09302400	19.5	1956–65
North Fork White River above Ripple Creek near Trappers Lake, CO	09302420	62.5	1965–73
Lost Creek near Buford, CO	09302450	21.5	1964–89
Marvine Creek near Buford, CO	09302500	59.7	1903–06,
			1973–84
North Fork White River near Buford, CO	09302800	220	1903–06,
			1956–72
North Fork White River at Buford, CO	09303000	259	1910–16,
			1919–21,
			1952–2001
South Fork White River at Budge's Resort, CO	09303300	52.3	1975–95

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Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Wagonwheel Creek at Budge's Resort, CO	09303320	7.36	1975–89
Patterson Creek near Budge's Resort, CO	09303340	11.2	1976–77
South Fork White River near Budge's Resort, CO	09303400	128	1976-95
South Fork White River near Buford, CO	09303500	157	1903-06,
			1910–15,
			1942–47,
			1967–92
South Fork White River at Buford, CO	09304000	177	1919–20,
			1952-97
Big Beaver Creek near Buford, CO	09304100	34.1	1955-64
Miller Creek near Meeker, CO	09304150	57.6	1970-79
Coal Creek near Meeker, CO	09304300	25.1	1957-68
White River at Meeker, CO	09304600	808	1978-85
Piceance Creek at Rio Blanco, CO	09305500	8.97	1952-57
Piceance Creek below Rio Blanco, CO	09306007	177	1974–98
Middle Fork Stewart Gulch near Rio Blanco, CO	09306015	24.0	1974–76,
			1977-82
Stewart Gulch above West Fork near Rio Blanco, CO	09306022	44.0	1976-85
West Fork Stewart Gulch near Rio Blanco, CO	09306025	14.2	1974–76,
			1977-82
West Fork Stewart Gulch at mouth near Rio Blanco, CO	09306028	15.7	1974-82
Sorghum Gulch near Rio Blanco, CO	09306033	1.22	1974–76,
			1977-82
Sorghum Gulch at mouth near Rio Blanco, CO	09306036	3.62	1974-86
Cottonwood Gulch near Rio Blanco, CO	09306039	1.20	1974-85
Piceance Creek Tributary near Rio Blanco, CO	09306042	1.06	1974-84,
			1985-92
Piceance Creek below Gardenhire Gulch near Rio Blanco, CO	09306045	255	1980-82,
			1985
Scandard Gulch near Rio Blanco, CO	09306050	6.61	1974–76,
			1978-82
Scandard Gulch at mouth near Rio Blanco, CO	09306052	7.97	1974-85
Willow Creek near Rio Blanco, CO	09306058	48.4	1974-85
Piceance Creek above Hunter Creek near Rio Blanco, CO	09306061	309	1974-87
Black Sulphur Creek near Rio Blanco, CO	09306175	103	1975-83
Horse Draw near Rangely, CO	09306202	1.47	1977-81
Horse Draw at mouth near Rangely, CO	09306203	2.87	1977-81
White River above Crooked Wash near White River City, CO	09306224	1,821	1982-89
Stake Springs Draw near Rangely, CO	09306230	26.1	1974–77
Corral Gulch below Water Gulch near Rangely, CO	09306235	8.61	1974-89
Dry Fork near Rangely, CO	09306237	2.74	1974–82
Box Elder Gulch near Rangely, CO	09306240	9.21	1974-85
Box Elder Gulch Tributary near Rangely, CO	09306241	2.39	1975-82
Corral Gulch at 84 Ranch, CO	09306244	37.8	1975-77

The following continuous-record surface-water discharge or stage-only stations (gaging stations) in Colorado have been discontinued or converted to partial-record stations. Daily streamflow or stage records were collected and published for the period of record, expressed in water years, shown for each station.

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Yellow Creek Tributary near 84 Ranch, CO	09306246	5.53	1975–77
Duck Creek at Upper Station near 84 Ranch, CO	09306248	39.1	1975-77
Duck Creek near 84 Ranch, CO	09306250	50.0	1975–77
White River above Rangely, CO	09306300	2,773	1972-82
Douglas Creek at Rangely, CO	09306380	425	1977–78, 1995
East Fork San Juan River above Sand Creek, near Pagosa Springs, CO	09339900	64.1	1957–1996, 1999–2003
East Fork San Juan River near Pagosa Springs, CO	09340000	86.9	1935-80
West Fork San Juan River above Borns Lake near Pagosa Springs, CO	09340500	41.2	1937–53
West Fork San Juan River at West Fork Campground near Pagosa Springs, CO	09340800	50.5	1984–87, 1997–99
Wolf Creek near Pagosa Springs, CO	09341200	14.0	1968-75
Wolf Creek at Wolf Creek Campground near Pagosa Springs, CO	09341300	18.0	1984–87, 1997–99
Windy Pass Creek near Pagosa Springs, CO	09341350	1.41	1984–87
West Fork San Juan River near Pagosa Springs, CO	09341500	85.4	1935–60, 1985–87, 1997–98
Turkey Creek near Pagosa Springs, CO	09342000	23.0	1997–98 1937–49
Rio Blanco near Pagosa Springs, CO	09342000	58.0	1937–49
Rio Blanco hear Fagosa Springs, CO Rio Blanco below Blanco diversion dam near Pagosa Springs, CO	09343300	69.1	
	09343500	23.3	1971–98 1935–52
Rito Blanco near Pagosa Springs, CO	09343300	69.8	1935–32 1937–95
Navajo River at Banded Peak Ranch near Chromo, CO	09344300	96.4	
Navajo River above Chromo, CO	09344400		1956–70
Navajo River below OSO diversion dam near Chromo, CO		100.5	1971–98
Little Navajo River at Chromo, CO	09345500	21.9 172	1935–52
Navajo River at Edith, CO	09346000		1912–96
Middle Fork Piedra River near Pagosa Springs, CO	09347200	32.2	1969–75
Middle Fork Piedra River near Dyke, CO	09347205	34.1	1978–84
Piedra River at Bridge Ranger Station near Pagosa Springs, CO	09347500	82.3	1936–41, 1946–54
Williams Creak near Bridge Bonger Station man Bogges Springs CO	00248500	43.7	
Williams Creek near Bridge Ranger Station near Pagosa Springs, CO	09348500	43.7	1936–41, 1946–49
Weminuche Creek near Bridge Ranger Station near Pagosa Springs, CO	09349000	53.4	1936–41, 1946–49
Piedra River near Piedra, CO	09349500	371	1911–12, 1938–73
Los Pinos River near Bayfield, CO	09353500	270	1927–86
Animas River at Howardsville, CO	09357500	55.9	1935–82
Cement Creek near Silverton, CO	09358500	13.5	1935–37,
	2,22000	-3.0	1946–49
Mineral Creek above Silverton, CO	09358900	11.0	1968–75
Mineral Creek near Silverton, CO	09359000	43.9	1935–49

The following continuous-record surface-water discharge or stage-only stations (gaging stations) in Colorado have been discontinued or converted to partial-record stations. Daily streamflow or stage records were collected and published for the period of record, expressed in water years, shown for each station.

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Lime Creek near Silverton, CO	09359100	33.9	1956–61
Animas River above Tacoma, CO	09359500	348	1945-56
Hermosa Creek near Hermosa, CO	09361000	172	1911,
			1912–14,
			1919–28,
			1939-80
Falls Creek near Durango, CO	09361200	7.18	1959-65
Junction Creek near Durango, CO	09361400	26.3	1959–65
Lightner Creek near Durango, CO	09362000	66.0	1927-49
Wilson Gulch near Durango, CO	09362550	6.5	1995-2002
Rainbow Springs Trout Ranch near Bondad, CO	09362600		1995–97
Florida River near Hermosa, CO	09362900	68.8	1955-63
Florida River near Durango, CO	09363000	97.4	1899,
			1901–03,
			1910–12,
			1917–24,
			1926-60
Florida River below Florida Farmers Ditch near Durango, CO	09363050	107	1967-82
Highway Spring near Loma Linda, CO	09363070		1995–97
Salt Creek near Oxford, CO	09363100	17.7	1956–63,
			1967-83
Florida River at Bondad, CO	09363200	221	1956–63,
			1967-83
Cherry Creek near Red Mesa, CO	09366000	66.0	1928-50
West Mancos River near Mancos, CO	09368500	39.4	1910–11,
			1938–53
East Mancos River near Mancos, CO	09369000	11.9	1937-51
Middle Mancos River near Mancos, CO	09369500	12.1	1937-51
Mancos River near Mancos, CO	09370000	71.5	1921,
			1931–38
Mancos River near Cortez, CO	09370800	302	1976–79
Mancos River below Johnson Canyon near Cortez, CO	09370820	320	1979-82
Navajo Wash near Towaoc, CO	09371002	26.3	1986-94
Hartman Draw at Cortez, CO	09371400	34.0	1978-86
McElmo Creek above Alkali Canyon near Cortez, CO	09371420	147	1972–86
Mud Creek near Cortez, CO	09371495	33.6	1978-81
McElmo Creek near Cortez, CO	09371500	230	1926–29,
			1940–45,
			1950–54,
			1982–93
McElmo Creek below Cortez, CO	09371700	283	1972-83

<sup>&</sup>lt;sup>a</sup>Converted to a crest-stage partial-record station.

### DISCONTINUED SURFACE-WATER-QUALITY STATIONS

The following stations were discontinued as continuous-record surface-water-quality stations. Daily records of temperature, specific conductance, pH, dissolved oxygen or sediment were collected and published for the period of record shown for each station.

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record (water years)
Canadian River near Lindland, CO	06619400	44.0	Temp., S.C., Sed.	1978–83
Canadian River near Brownlee, CO	06619450	158	Temp., S.C., Sed.	1978-83
Duck Creek near Grant, CO	06704500	7.78	Temp., S.C., Sed.	1995–97
Geneva Creek at Grant, CO	06705500	74.6	Temp., S.C., Sed.	1995–97
South Platte River at Littleton, CO	06710000	3,069	Temp.	1970-86
,		,	S.C.	1984–86
South Platte River at 64th Ave. at Commerce City, CO	06714215	3,884	Temp., pH, D.O.	1987
South Clear Creek above Lower Cabin Creek Reservoir near	06714400		Temp., S.C.,	1995–97
Georgetown, CO			Sed.	1995,1997
South Clear Creek above Leavenworth Creek near	06714600	16.0	Temp., S.C.	1995–97
Georgetown, CO			Sed.	1995
Leavenworth Creek at mouth, near Georgetown, CO	06714800	12.0	Temp., S.C.	1995–97
			Sed.	1995
Clear Creek at Golden, CO	06719505	400	pH, D.O., Sed.	1981
			Temp., S.C.	1981–95
Ralston Creek near Plainview, CO	06719725	36.9	Temp., S.C., pH, D.O.	1983-84
Schwartzwalder Mine Effluent near Plainview, CO	06719730		Temp., S.C., pH, D.O.	1983-84
Ralston Creek below Schwartzwalder Mine, CO	06719735	38.9	Temp., S.C., pH, D.O.	1983-84
Ralston Creek above Ralston Res. near Plainview, CO	06719740	42.7	Temp., S.C., pH, D.O.	1983-84
Cache La Poudre River at Fort Collins	06752260	1,127	Temp., S.C., pH	1987–99
Cache La Poudre River near Greeley, CO	06752500	1,877	Temp., S.C., pH, D.O.	1975
South Platte River near Kersey, CO	06754000	8,598	Temp.	1950-53
Kiowa Creek at Elbert, CO	06758000	28.6	Sed.	1957–68,
				1960–62,
				1964–65
West Kiowa Creek at Elbert, CO	06758100	35.9	Sed.	1962–65
Kiowa Creek at Kiowa, CO	06758200	111	Sed.	1956–65
South Platte River at Julesburg, CO	06763990		Temp.	1967–73
(Chan. 2)			S.C.	1971–73
North Fork Republican River near Wray, CO	06822000	1,019	Temp., Sed.	1962–63
East Fork Arkansas River at Highway 24 near Leadville, CO	07079300	49.9	Temp., S.C., pH	1990–96
Arkansas River near Leadville, CO	07081200	98.8	Temp., S.C., pH	1990–96
California Gulch at Malta, CO	07081800	8.13	Temp., S.C., pH	1991–92
Halfmoon Creek near Malta, CO	07083000	23.6	Temp.	1967–82
Arkansas River below Empire Gulch, near Malta, CO	07083710	237	Temp., S.C., pH	1990–93
Arkansas River at Buena Vista, CO	07087200	611	Temp., S.C.	1986–93
Arkansas River near Nathrop, CO	07091200	1,060	S.C., pH	1989–93
Badger Creek, upper station, near Howard, CO	07093740	106	Temp.	1995–2003
			Sed.	1981–2003
Badger Creek, lower station, near Howard, CO	07093775	211	Temp.	1995–2003
	0=00::		Sed.	1981–95
Arkansas River at Parkdale, CO	07094500	2,548	S.C.	1986–93
Red Creek below Sullivan Park at Fort Carson, CO	07099080	26.6	Sed.	2000–2003
Fountain Creek near Colorado Springs, CO	07103700	103	Sed.	1995–2003
Cottonwood Creek at Cowpoke Road at Colorado Springs, CO	07103977	5.93	Sed.	1998–2003

### DISCONTINUED SURFACE-WATER-QUALITY STATIONS—CONTINUED

The following stations were discontinued as continuous-record surface-water-quality stations. Daily records of temperature, specific conductance, pH, dissolved oxygen or sediment were collected and published for the period of record shown for each station.

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record (water years)
Cottonwood Creek Tributary above Rangewood Drive at Colorado Springs, CO	07103985	2.81	Sed.	1998–2003
Monument Creek at Pikeview, CO	07104000	204	Sed.	1995–97
Fountain Creek at Security, CO	07105800	495	Temp., S.C., pH, D.O.	1991–98
Fountain Creek near Pinon, CO	07106300	849	Temp., S.C.	1976–79
Apishapa River at Aguilar, CO	07118500	149	Sed.	1979-81
Apishapa River near Fowler, CO	07119500	1,125	Temp., S.C.	1966–68
Big Arroyo near Thatcher, CO	07120620	15.5	Temp., S.C., Sed.	1983–90 <sup>a</sup>
Arkansas River near La Junta, CO	07122000		Temp., S.C.	1966–68
Horse Creek near Las Animas, CO	07123675	1,403	Temp., S.C.	1987–93
Middle Fork Purgatoire River at Stonewall, CO	07124050	52.1	Temp., S.C.	1978–81
			Sed.	1979–81
Molino Canyon near Weston, CO	07124100	4.23	Sed.	1979–81
Sarcillo Canyon near Segundo, CO	07124120	35.3	Sed.	1980–81
Purgatoire River at Madrid, CO	07124200	550	Temp., S.C.	1979–81
			Sed.	1978–81
Mulligan Canyon near Boncarbo, CO	07124210	4.53	Sed.	1979–81
Reilly Canyon at Cokedale, CO	07124220	35.1	Sed.	1979–81
Carpios Canyon near Jansen, CO	07124350	100	Sed.	1979–81
Purgatoire River below Trinidad Lake, CO	07124410	672	Sed.	1977–82
Luning Arroyo Tributary near Model, CO	07126110		Temp., S.C.	1984
Van Bremer Arroyo near Thatcher, CO	07126130	80.6	Temp., S.C.	1985
Van Bremer Arroyo near Tyrone, CO	07126140	132	Temp., S.C.	1985–98
Van Bremer Arroyo near Model, CO	07126200	175	Temp., S.C.	1983–98
Purgatoire River near Thatcher, CO	07126300	1,791	Sed.	1983–92
		-,,,,	Temp., S.C.	1983–98
Burke Arroyo Tributary near Thatcher, CO	07126320	4.66	Temp., S.C.	1983–86
			Sed.	1984–86
Taylor Arroyo below Rock Crossing near Thatcher, CO	07126325	48.4	Temp., S.C.	1983–98
Lockwood Canyon Creek near Thatcher, CO	07126390	41.4	Temp., S.C., Sed.	1989–92
Red Rock Canyon Creek at mouth, near Thatcher, CO	07126415	48.8	Temp., S.C.	1983–90 <sup>a</sup>
Chacuaco Creek at mouth near Timpas, CO	07126470	424	Temp., S.C., Sed.	1983–92
Bent Canyon Creek at mouth near Timpas, CO	07126480	56.2	Temp., S.C.	1983–90 <sup>a</sup>
Purgatoire River at Rock Crossing near Timpas, CO	07126485	2,635	Temp., S.C., Sed.	1983–90
Purgatoire River at Highland Dam near Las Animas, CO	07128000	3,376	S.C.	1967–68
Purgatoire River near Las Animas, CO	07128500	3,318	Temp., S.C.	1986–96
Willow Creek at Creede, CO	08216500	35.3	Temp., S.C.	1980–90
Rio Grande at Wagonwheel Gap, CO	08210500	780	Temp., S.C.	1976–77
San Luis Creek near Poncha Pass, CO	08217300	6.57	Sed.	1981–83
San Luis Creek above Villa Grove, CO	08224113	11.2	Sed.	1981–83
Alamosa River above Wightman Fork near Jasper, CO	08235250	37.8	Temp., S.C., pH	1995–97,99
Wightman Fork at mouth near Jasper, CO	08235290	16.1	Temp., S.C., pH	1995–97,99
Alamosa River above Terrace Reservoir, CO	08236000	106	Temp., S.C., pH	1994–97
	08236500	116	Temp., S.C., pH	1995–97,99
Alamosa River below Terrace Reservoir, CO	U0∠.1U1UU	110	Tellio., O.C., Dri	177.)-71.77

The following stations were discontinued as continuous-record surface-water-quality stations. Daily records of temperature, specific conductance, pH, dissolved oxygen or sediment were collected and published for the period of record shown for each station.

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record (water years)
Colorado River below Baker Gulch near Grand Lake, Co	09010500	53.4	Temp.	1997–98
Colorado River at Hot Sulphur Springs, CO	09034500	825	Temp., S.C.	1947–94
Williams Fork near Parshall, CO	09037500	184	Temp., S.C.	1986–87
Williams Fork below Williams Fork Reservoir, CO	09038500	230	Temp., S.C.	1985–87
Muddy Creek at Kremmling, CO	09041500	290	Temp., S.C.	1986–87, 1990–95
French Gulch at Breckenridge, CO	09046530	10.9	Temp.	1997–98
West Tenmile Creek at Copper Mountain, CO	09049200	21.0	Sed.	1973–79
Boulder Creek near Dillon, CO	09052500	9.89	Temp., S.C.	1982
Blue River above Green Mountain Reservoir, CO	09053500	511	Temp. S.C.	1986 1986–87
Blue River below Green Mountain Reservoir, CO	09057500	599	Temp., S.C.	1995–99
Rock Creek at Crater, CO	09060550	72.6	Temp., S.C.	1986-87
Black Gore Creek near Vail, CO	09066050	19.6	Sed.	1973–79
Gore Creek at Vail, CO	09066250	57.3	Sed.	1973-79
Gore Creek at mouth near Minturn, CO	09066510	102	Temp. S.C.	1997–98 1997
Colorado River near Dotsero, CO	09070500	4,394	Temp., S.C.	1980–84 1997–98
Colorado River near Glenwood Springs, CO	09071100	4,560	Sed. Temp.	1959–61 1969–70,
			0.0	1980–85
	00072500	4.550	S.C.	1980–85
Colorado River at Glenwood Springs, CO	09072500	4,558	Temp. Sed.	1954–58 1959–61
Roaring Fork River above Difficult Creek near Aspen, CO	09073300	75.8	Temp., S.C.	2000
Hunter Creek above Midway Creek near Aspen, CO	09073700	6.18	Temp., S.C.	1976–77
Roaring Fork River at Glenwood Springs, CO	09085000	1,451	Temp., S.C. Sed.	1980–84 1959–61
Colorado River below Glenwood Springs, CO	09085100	6,013	Temp., S.C.	1980–84
East Middle Fork Parachute Cr near Rio Blanco, CO	09092850	22.1	Temp., S.C. Sed.	1976–82 1977–82
East Fork Parachute Creek near Rulison, CO	09092970	20.4	Temp.	1977–78, 1980–83
			S.C.	1977–83
			Sed.	1978, 1980–83
Parachute Creek near Parachute, CO	09093000	141	Temp., S.C. Sed.	1975–80 1974–75
Parachute Creek at Parachute, CO	09093500	198	Temp., S.C. Sed.	1975–80 1974–82
Colorado River near De Beque, CO	09093700	7,370	Temp., S.C.	1973-82
Roan Creek near De Beque, CO	09095000	321	Sed. Temp., S.C.	1974–76 1975–80
Dry Fork at Upper Station near DeBeque, CO	09095300	97.4	Sed. Temp.	1975–81 1997–98

The following stations were discontinued as continuous-record surface-water-quality stations. Daily records of temperature, specific conductance, pH, dissolved oxygen or sediment were collected and published for the period of record shown for each station.

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record (water years)	
Government Highline Canal near Mack, CO	09095530		Temp.	1973–80	
			S.C.	1974-80	
Plateau Creek near Cameo, CO	09105000	592	Temp., S.C.	1971-75	
Lewis Wash near Grand Junction, CO	09106200	4.72	Temp., S.C.	1973-77	
East River below Cement Creek near Crested Butte, CO	09112200	238	S.C., D.O.,	1995–97	
			Temp.	1995–98	
Gunnison River below Gunnison Tunnel, CO	09128000	3,965	Temp.	1997–98	
Uncompahgre River near Ridgway, CO	09146200	149	Temp.	1997–98	
Dry Creek at Begonia Road near Delta, CO	09149480	175	Temp.	1997–98	
			S.C.	1997	
Uncompangre River at Delta, CO	09149500	1,115	Sed.	1959	
Potter Creek near Columbine Pass, CO	09149900	7.10	Temp., S.C.	1981	
Potter Creek near Olathe, CO	09149910	26.0	Temp., S.C.	1981	
Orchard Mesa Drain at Grand Junction, CO	09152600	3.70	Temp., S.C.	1973–77	
Leach Creek at Durham, CO	09152650	24.8	Temp., S.C.	1973–77	
Adobe Creek near Fruita, CO	09152900	15.4	Temp., S.C.	1973-80	
Big Salt Wash at Fruita, CO	09153270	142	Temp., S.C.	1973–77	
Reed Wash near Mack, CO	09153290	15.7	Temp.	1997–98	
			S.C.	1997	
Reed Wash near Loma, CO	09153300	29.3	Temp., S.C.	1973-83	
West Salt Creek near Carbonera, CO	09153330	95.6	Temp., S.C.	1981-82	
West Salt Creek near Mack, CO	09153400	168	Temp., S.C.	1973-84	
Badger Wash Observation Res 4-A near Mack, CO	09160000	.02	Temp., S.C.	1981	
Badger Wash Observation Res 12 near Mack, CO	09160500	.09	Temp., S.C.	1981-82	
Badger Wash Observation Res 2-A near Mack, CO	09161000	.15	Temp., S.C.	1981	
Badger Wash near Mack, CO	09163050	6.51	Temp., S.C.	1973-80	
East Salt Creek near Mack, CO	09163310	197	Temp., S.C.	1973-82	
Mack Wash near Mack, CO	09163340	15.9	Temp.	1973-82	
			S.C.	1974-82	
Salt Creek near Mack, CO	09163490	436	Temp., S.C.	1973-83	
Disappointment Creek near Dove Creek, CO	09168100	147	Temp., S.C.	1984	
Big Gypsum Creek near Slick Rock, CO	09168800	43.9	Temp., S.C.	1981	
Dolores River below W. Paradox Cr near Bedrock, CO	09171070	2,144	Temp., S.C.	1986-87	
Salt Creek near Gateway, CO	09179200	31.2	Temp., S.C.	1981-85	
Dolores River at Gateway, CO	09179500	4,347	Temp.	1949-52	
Yampa River near Oak Creek, CO	09237500	227	Sed.	1985-88	
Middle Creek near Oak Creek, CO	09243700	23.5	Temp., S.C.	1976-81	
Foidel Creek near Oak Creek, CO	09243800	8.61	Temp., S.C.	1976–83,	
				1986-88	
Foidel Creek at mouth near Oak Creek, CO	09243900	17.5	Temp., S.C. Sed.	1976–81 1978–81	
Sage Creek above Sage Creek Res. near Hayden, CO	09244415	4.17	Temp., S.C.	1981–83	
Watering Trough Gulch near Hayden, CO	09244460	2.65	Temp., S.C.	1979–81	
Hubberson Gulch near Hayden, CO	09244464	8.08	Temp., S.C.	1979–81	
Stokes Gulch near Hayden, CO	09244470	13.6	Temp., S.C., Sed.	1978–81	
Elkhead Creek above Long Gulch near Hayden, CO	09246200	171	Temp., S.C.	1995–99, 2001–2003	

The following stations were discontinued as continuous-record surface-water-quality stations. Daily records of temperature, specific conductance, pH, dissolved oxygen or sediment were collected and published for the period of record shown for each station.

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record (water years)
Elkhead Creek below Maynard Gulch near Craig, CO	09246400	212	Temp., S.C.	1995–99,
				2001–2003
Good Spring Creek at Axial, CO	09250400	40.0	Temp.	1975–78
			S.C.	1974–78
Wilson Creek above Taylor Creek near Axial, CO	09250507	20.0	Temp., S.C., Sed.	1980–81
Taylor Creek at mouth near Axial, CO	09250507	7.22	Temp., S.C.	1976–81
Wilson Creek near Axial, CO	09250600	27.4	Temp.	1975–80
			S.C.	1974–80
			Sed.	1976–80
Jubb Creek near Axial, CO	09250610	7.53	Temp., S.C.	1976–81
Morgan Gulch near Axial, CO	09250700	25.6	Temp., S.C.	1980–81
Little Snake River above Lily, CO	09259950	3,730	Temp., S.C.	1950-69
			Sed.	1958-64
Little Snake River near Lily, CO	09260000	3,730	Temp., S.C.	1975–85
			Sed.	1958-64
Yampa River at Deerlodge Park, CO	09260050	7,660	Temp., S.C.	1977-82
White River above Coal Creek, near Meeker, CO	09304200	648	Temp., S.C.	1978-84
White River near Meeker, CO	09304500	755	Temp., S.C.	1973-74
White River at Meeker, CO	09304600	808	Temp., S.C.	1978-85
White River below Meeker, CO	09304800	1,024	Temp., S.C.	1978-85
Piceance Creek below Rio Blanco, CO	09306007	177	Temp., S.C., Sed.	1974–85
Middle Fork Stewart Gulch near Rio Blanco, CO	09306015	24.0	Temp., S.C.	1976,
Thouse I one stewart outen near Into Branco, Co	0,000010	20	rempi, siei	1981
			Sed.	1976
Stewart Gulch above West Fork near Rio Blanco, CO	09306022	44.0	Temp., S.C., Sed.	1974–82
West Fork Stewart Gulch near Rio Blanco, CO	09306025	14.2	Temp., S.C., Sed.	1974–76,
West Folk Stewart Guien near Rio Bianco, Co	07300023	11.2	remp.	1980–81
			S.C.	1975–76,
			s.c.	1980–81
			Sed.	1974–76
West Fork Stewart Gulch at mouth near Rio Blanco, CO	09306028	15.7	Temp.	1980–81
west Polk Stewart Outen at mouth hear Rio Bianco, CO	09300028	13.7	S.C.	1977,
			s.c.	1977,
			Co.d	
			Sed.	1975–76,
	00206022	1.00	т сс	1980–81
Sorghum Gulch near Rio Blanco, CO	09306033	1.22	Temp., S.C.	1975–76,
			0.1	1980
	00206026	2.62	Sed.	1975–76
Sorghum Gulch at mouth near Rio Blanco, CO	09306036	3.62	Temp., S.C.	1976,
				1978,
				1980
			Sed.	1975–77,
				1982
Cottonwood Gulch near Rio Blanco, CO	09306039	1.20	Temp., S.C.	1976–78,
			_	1980
			Sed.	1974–77,
				1980

The following stations were discontinued as continuous-record surface-water-quality stations. Daily records of temperature, specific conductance, pH, dissolved oxygen or sediment were collected and published for the period of record shown for each station.

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record (water years)
Piceance Creek Tributary near Rio Blanco, CO	09306042	1.06	Temp., S.C. Sed.	1974–86 1974–82
Piceance Creek below Gardenhire Gulch near Rio Blanco, CO	09306045	255	Temp., S.C.	1980-81
Scandard Gulch near Rio Blanco, CO	09306050	6.61	Temp., S.C.	1980
			Sed.	1975–76
Scandard Gulch at mouth near Rio Blanco, CO	09306052	7.97	Temp., S.C.	1976, 1978, 1980
			Sed.	1974–76, 1980
Willow Creek near Rio Blanco, CO	09306058	48.4	Temp., S.C.	1974–82
,			pH, D.O.	1976-82
			Sed.	1974-82
Piceance Creek above Hunter Creek near Rio Blanco, CO	09306061	309	Temp., S.C., Sed.	1974-85
			pH, D.O.	1974-84
Black Sulphur Creek near Rio Blanco, CO	09306175	103	Temp., S.C., Sed.	1975-81
Piceance Creek below Ryan Gulch near Rio Blanco, CO	09306200	506	Sed.	1972-83
			Temp., S.C.	1980–82,
				1986–98
Horse Draw near Rangely, CO	09306202	1.47	Sed.	1980
Horse Draw at mouth near Rangely, CO	09306203	2.87	Temp., S.C.	1980
			Sed.	1980-81
Piceance Creek at White River, CO	09306222	652	Temp., S.C., Sed.	1974-83
Stake Springs Draw near Rangely, CO	09306230	26.1	Temp., S.C., Sed.	1977
Corral Gulch below Water Gulch near Rangely, CO	09306235	8.61	Temp., S.C.	1975-85
			Sed.	1974-82
Dry Fork near Rangely, CO	09306237	2.74	Temp., S.C.	1977, 1979, 1982
			Sed.	1975, 1977, 1979, 1981–82
Box Elder Gulch near Rangely, CO	09306240	9.21	Temp., S.C.	1975–85 1975–82
Box Elder Gulch Tributary near Rangely, CO	09306241	2.39	Sed. Temp.	1976,
			S.C.	1980–81 1976–77,
			Sad	1981
			Sed.	1975,
				1980, 1982
Corral Gulch near Rangely, CO	09306242	31.6	Temp., S.C.	1982
Corrai Guien near Kangery, CO	09300242	31.0	Sed.	1973–87
Corral Gulch at 84 Ranch, CO	09306244	37.8	Temp., S.C. Sed.	1974–83 1975–77
Yellow Creek Tributary near 84 Ranch, CO	09306244	5.53	Sed.	1975–77
Tonow Creek Intoutary near of Ranch, CO	07500240	5.55	Seu.	1770

The following stations were discontinued as continuous-record surface-water-quality stations. Daily records of temperature, specific conductance, pH, dissolved oxygen or sediment were collected and published for the period of record shown for each station.

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record (water years)
Duck Creek at Upper Station near 84 Ranch, CO	09306248	39.1	Sed.	1976
Duck Creek near 84 Ranch, CO	09306250	50.0	Temp., S.C.	1977
Yellow Creek near White River, CO	09306255	262	Temp., S.C. Sed.	1974-82
Windy Pass Creek near Pagosa Springs, CO	09341350	1.41	Sed.	1986
West Fork San Juan River near Pagosa Springs, CO	09341500	87.9	Sed.	1985-87
Rio Blanco near Pagosa Springs, CO	09343000	58.0	Sed.	1961–62
Navajo River above Chromo, CO	09344300	96.4	Sed.	1961–62
Vallecito Creek near Bayfield, CO	09352900	72.1	Temp.	1962-82
Mancos River near Cortez, CO	09370800	302	Temp., S.C.	1976-79
Mancos River below Johnson Canyon near Cortez, CO	09370820	320	Temp., S.C.	1979-82
Mancos River near Towaoc, CO	09371000	526	Sed.	1961
Hartman Draw at Cortez, CO	09371400	34.0	Temp., S.C.	1978-81
McElmo Creek near Cortez, CO	09371500	230	Temp., S.C.	1982–93

Type of record: Temp. (temperature), S.C. (specific conductance), pH (pH), D.O. (dissolved oxygen), Sed. (sediment).

<sup>&</sup>lt;sup>a</sup>Converted to a crest-stage partial-record station.

## HYDROLOGIC-DATA STATION RECORDS

## PLATTE RIVER BASIN

## 06614800 MICHIGAN RIVER NEAR CAMERON PASS, CO

LOCATION.--Lat 40°29′46″, long 105°51′52″, in S¹½ sec.12, T.6 N., R.76 W., (unsurveyed), Jackson County, Hydrologic Unit 10180001, on right bank 500 ft upstream from Michigan Ditch, 2.2 mi southeast of Cameron Pass, 8 mi east of Gould, and 27 mi southeast of Walden.

DRAINAGE AREA.--1.53 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1973 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06614800

 $GAGE.--Water-stage\ recorder.\ Elevation\ of\ gage\ is\ 10,390\ ft\ above\ NGVD\ of\ 1929,\ from\ topographic\ map.$ 

REMARKS .-- Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.76 0.72 0.72 0.72 0.72	e0.50 e0.49 e0.48 e0.47 e0.48	e0.30 e0.30 e0.30 e0.30	e0.30 e0.30 e0.30 e0.31 e0.31	e0.27 e0.27 e0.25 e0.25 e0.25	e0.18 e0.18 e0.18 0.18	0.31 0.32 0.32 0.35 0.37	0.61 0.58 0.88 1.5 2.2	4.9 6.0 9.8 11	11 8.9 7.8 7.1 6.5	1.8 1.8 1.6 1.5	1.8 1.7 1.6 1.9 2.0
6 7 8 9 10	0.67 0.67 0.67 0.65 0.65	e0.48 e0.48 e0.48 e0.48	e0.30 e0.30 e0.30 e0.30 e0.30	e0.31 e0.29 e0.28 e0.24 e0.23	e0.25 e0.25 e0.25 e0.25 e0.25	0.18 0.19 0.19 0.20 0.20	0.39 0.39 0.39 0.39 0.39	3.0 3.7 3.7 4.2 5.3	14 16 16 18 16	6.2 5.9 5.7 5.5 5.4	1.4 1.4 1.3 1.2 1.1	1.9 1.7 1.5 1.4 1.6
11 12 13 14 15	0.72 0.68 0.67 0.65 0.64	e0.48 e0.46 e0.45 e0.66 e0.59	e0.30 e0.30 e0.30 e0.30	e0.24 e0.25 e0.26 e0.27 e0.27	e0.25 e0.25 e0.25 e0.25 e0.25	0.21 0.21 0.20 0.21 0.21	0.41 0.42 0.42 0.42 0.42	5.9 4.9 4.1 3.9 4.1	12 10 9.4 11 12	5.0 4.6 4.5 4.6 5.5	1.1 1.0 0.99 0.95	1.8 1.4 1.6 1.7 1.5
16 17 18 19 20	0.63 0.63 0.63 0.63 0.63	e0.47 e0.51 e0.52 e0.43 e0.39	e0.30 e0.30 e0.30 e0.30	e0.25 e0.25 e0.25 e0.25 e0.25	e0.25 e0.25 e0.24 e0.23 e0.23	0.21 0.21 0.21 0.22 0.23	0.42 0.42 0.45 0.52 0.52	5.5 6.4 7.2 8.7 9.9	10 11 12 11 10	8.1 7.0 5.3 4.5 4.3	0.92 1.0 2.0 3.9 4.2	1.4 1.3 1.2 1.3 1.8
21 22 23 24 25	0.63 0.63 0.63 0.62 0.54	e0.45 e0.45 e0.45 e0.45	e0.30 e0.30 e0.30 e0.30	e0.25 e0.25 e0.25 e0.26 e0.27	e0.23 e0.21 e0.21 e0.21 e0.21	0.25 0.25 0.27 0.27 0.28	0.50 0.48 0.48 0.48 0.51	10 9.3 8.0 6.9 5.6	9.9 8.4 8.3 8.5 8.6	4.1 3.9 3.6 3.4 3.0	3.9 3.2 2.7 2.3 2.0	2.1 1.9 1.8 2.0 2.1
26 27 28 29 30 31	0.42 0.47 0.48 0.48 0.48 0.50	e0.45 e0.44 e0.42 e0.42 e0.30	e0.30 e0.30 e0.30 e0.30 e0.30 e0.30	e0.27 e0.27 e0.27 e0.27 e0.27 e0.27	e0.19 e0.18 e0.18 e0.18	0.29 0.29 0.30 0.31 0.31 0.31	0.52 0.52 0.56 0.58 0.64	5.1 6.2 8.5 7.7 6.2 5.2	9.2 8.6 8.2 8.5 11	2.7 2.6 2.5 2.3 2.1 1.9	2.1 3.3 2.8 2.3 2.0 1.9	2.3 2.3 2.3 2.4 2.7
TOTAL MEAN MAX MIN AC-FT	19.32 0.62 0.76 0.42 38	14.06 0.47 0.66 0.30 28	9.30 0.30 0.30 0.30 18	8.31 0.27 0.31 0.23 16	6.79 0.23 0.27 0.18 13	7.11 0.23 0.31 0.18 14	13.31 0.44 0.64 0.31 26	164.97 5.32 10 0.58 327	322.3 10.7 18 4.9 639	155.5 5.02 11 1.9 308	60.26 1.94 4.2 0.92 120	54.0 1.80 2.7 1.2 107
MEAN MAX (WY) MIN (WY)	0.91 2.25 (1998) 0.32 (1980)	0.56 1.11 (1996) 0.20 (1979)	0.42 0.88 (1996) 0.25 (1979)	0.35 0.57 (1988) 0.17 (1991)	0.31 0.55 (1986) 0.16 (1977)	- 2004, BY V 0.32 0.86 (1986) 0.17 (1974)	0.41 0.80 (1994) 0.22 (1982)	4.13 9.50 (1974) 0.70 (1995)	16.1 27.1 (1990) 9.69 (2002)	8.53 24.8 (1995) 1.56 (2002)	2.65 6.83 (1983) 0.79 (2002)	1.43 4.82 (1997) 0.49 (1988)
ANNUAI ANNUAI	IMARY STATISTICS FOR 2003 CALENDAR YEAR IUAL TOTAL 1,172.82 IUAL MEAN 3.21 HEST ANNUAL MEAN							04 WATER Y 35.23 2.28	EAR	WATER	YEARS 197 3.01 4.61	74 - 2004 1983
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCI 50 PERCI	OWEST ANNUAL MEAN  IGHEST DAILY MEAN  OWEST DAILY MEAN  OWEST DAILY MEAN  NNUAL SEVEN-DAY MINIMUM  IAXIMUM PEAK FLOW  IAXIMUM PEAK STAGE  NNUAL RUNOFF (AC-FT)  O PERCENT EXCEEDS  O OSO  O SON  O S			7	6	e0.18 Feb e0.18 Feb 22 Jur 3.15 Jur	9 527 527 1 9 1 9		1.59 69 J 0.08 No 0.14 Ja 115 J	2002 ul 14, 1995 ov 16, 1989 an 9, 1979 ul 12, 1995 ul 12, 1995		

e Estimated.

a From rating curve extended above 82 ft<sup>3</sup>/s. b Also occurred Jul 13, 1995. c Maximum gage height, 3.70 ft, Jun 20, 1997.

## 06618300 ILLINOIS RIVER BELOW ISH BALDWIN DITCH NEAR WALDEN, CO

 $LOCATION. --Lat\ 40^\circ 34^\prime 32^\prime', long\ 106^\circ 14^\prime 28^\prime', in\ NW^{1/}_{4}SE^{1/}_{4}\ sec. 15, T.7\ N., R.79\ W., Jackson\ County, Hydrologic\ Unit\ 10180001, on\ right\ bank,\ 200\ ft\ below\ Ish\ Baldwin\ Ditch\ Diversion\ and\ 9.7\ mi\ north-northwest\ of\ Rand,\ and\ 11mi\ south-southeast\ of\ Walden.$ 

DRAINAGE AREA.--181 mi<sup>2</sup>.

PERIOD OF RECORD.--April 2002 to September 2004 (seasonal records only), discontinued. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06618300

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8295 ft above NGVD of 1929, from topographic map.

REMARKS .-- No estimated daily discharges. Records fair. Natural flow of stream is affected by numerous upstream diversions and return flow.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum discharge, 500 ft<sup>3</sup>/s, June 2, 2003, gage height 7.21 ft; no flow many days.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 47 ft<sup>3</sup>/s, July 1, gage height, 5.11 ft; no flow many days.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							5.8	2.6	6.0	37	0.23	5.2
2							5.4	2.7	5.3	24	0.00	3.7
3							4.9	2.5	4.9	11	0.00	0.96
4							4.8	2.2	4.9	7.1	0.00	2.0
5							4.8	2.1	6.4	6.8	0.00	5.3
6							6.2	5.2	6.8	10	0.00	7.5
7							7.5	2.0	7.2	10	0.00	6.4
8							7.8	1.9	9.7	5.0	0.00	5.6
9							9.2	2.1	16	2.9	0.00	5.0
10							12	4.7	15	2.8	0.00	4.5
11							10	11	15	5.6	0.00	4.5
12							8.6	12	15	6.9	0.00	4.4
13							7.3	15	12	4.8	0.00	3.4
14							6.9	14	8.7	2.7	0.00	1.7
15							5.9	9.6	6.8	0.97	0.00	0.69
16							5.5	7.4	11	0.83	0.00	0.31
17							6.4	7.5	11	1.0	0.00	0.02
18							7.2	5.4	18	0.91	0.00	0.00
19							8.9	2.9	19	2.5	0.00	0.00
20							8.6	2.6	14	0.92	7.1	0.00
21							5.0	3.4	13	0.56	5.7	0.49
22							5.0	5.7	16	0.22	9.1	4.2
23							5.0	11	15	0.23	8.9	5.3
24							4.6	12	8.3	6.6	6.7	6.0
25							3.9	8.4	5.5	7.2	5.6	6.8
26							3.2	8.5	5.0	2.5	6.1	7.2
27							2.9	7.1	7.8	2.3	9.4	6.3
28							2.7	5.7	14	1.5	15	5.2
29							2.6	4.7	14	1.5	12	4.3
30							2.6	6.2	17	1.2	8.6	5.5
31								7.6		1.2	6.6	
TOTAL							181.2	195.7	328.3	168.74	101.03	112.47
MEAN							6.04	6.31	10.9	5.44	3.26	3.75
MAX							12	15	19	37	15	7.5
MIN							2.6	1.9	4.9	0.22	0.00	0.00
AC-FT							359	388	651	335	200	223

## 06618480 ILLINOIS RIVER BELOW POTTER CREEK NEAR WALDEN, CO

 $LOCATION. --Lat~40^{\circ}42'31", long~106^{\circ}16'47", in~SW^{1}/_{4}NW^{1}/_{4}~sec. 32, T.9~N., R.79~W., Jackson~County, Hydrologic~Unit~10180001, on left bank~500~ft~downstream~from~Potter~Creek, and~1.5~mi~south~of~Walden.$ 

DRAINAGE AREA.--257 mi<sup>2</sup>, of which about 0.33 mi<sup>2</sup> is probably noncontributing.

PERIOD OF RECORD.--August 2001 to September 2004 (seasonal records only), discontinued. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06618480

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,070 ft above NGVD of 1929, from topographic map.

REMARKS .-- No estimated daily discharges. Records fair. Natural flow of stream is affected by numerous diversions and return flow.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum discharge, 423 ft<sup>3</sup>/s, June 3, 2003, gage height, 7.63 ft; no flow many days, most years.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 28 ft<sup>3</sup>/s, July 2, gage height, 4.67 ft; no flow Sept. 17-18.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							7.8	5.9	2.6	12	1.8	0.01
2							6.6	5.5	5.9	21	1.6	0.01
3							5.7	5.0	4.6	23	1.2	0.01
4							5.3	4.6	2.7	11	0.90	0.03
5							5.0	4.3	1.6	4.2	0.65	0.03
6							5.2	3.7	0.92	1.7	0.53	0.02
7							9.0	3.3	0.47	1.1	0.39	0.02
8							11	2.9	0.22	0.89	0.27	0.01
9							17	2.6	0.16	0.62	0.17	0.01
10							19	2.6	0.15	0.57	0.11	0.01
11							20	2.6	2.1	0.39	0.08	0.01
12							20	4.1	8.1	0.26	0.06	0.01
13							19	9.1	11	0.20	0.05	0.01
14							17	11	9.9	0.17	0.05	0.01
15							15	10	5.4	0.23	0.04	0.01
16							13	8.8	2.5	1.8	0.03	0.01
17							12	6.4	1.5	1.3	0.03	0.00
18							10	4.3	5.9	1.2	0.04	0.00
19							10	2.8	11	0.62	0.09	0.01
20							11	2.1	12	0.46	0.06	0.02
21							14	1.6	13	0.53	0.05	0.03
22							16	1.2	13	7.6	0.04	0.05
23							15	0.95	10	8.0	0.03	0.08
24							13	0.68	11	5.4	0.02	0.52
25							11	1.5	8.8	5.5	0.02	6.0
26							10	7.2	4.2	3.8	0.02	5.4
27							9.4	7.4	1.7	7.4	0.05	1.9
28							8.3	6.7	1.1	6.5	0.02	0.96
29							7.5	5.6	0.85	5.1	0.02	0.83
30							6.8	3.5	5.3	3.5	0.01	1.7
31								2.5		2.7	0.01	
TOTAL							349.6	140.43	157.67	138.74	8.44	17.72
MEAN							11.7	4.53	5.26	4.48	0.27	0.59
MAX							20	11	13	23	1.8	6.0
MIN							5.0	0.68	0.15	0.17	0.01	0.00
AC-FT							693	279	313	275	17	35

#### 06620000 NORTH PLATTE RIVER NEAR NORTHGATE, CO

LOCATION.--Lat 40°56′15″, long 106°20′16″, in NE½ SW½ SE½ sec.11, T.11 N., R.80 W., Jackson County, Hydrologic Unit 10180001, on right bank 1,000 ft downstream from bridge on State Highway 125, 0.7 mi upstream from Camp Creek, 4.2 mi northwest of Northgate, and 4.4 mi south of Colorado-Wyoming State line.

DRAINAGE AREA.--1.431 mi<sup>2</sup>.

PERIOD OF RECORD.--May to November 1904 (published as "near Pinkhampton"), May 1915 to current year. Monthly discharge only for some periods, published in WSP 1310. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/wy/nwis/inventory/?site\_no=06620000

REVISED RECORDS.--WSP 1310: 1916-21, 1929(M), 1930-32. WSP 1730: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 7,810.39 ft above NGVD of 1929. See WSP 1730 for history of changes prior to Apr. 8, 1918. Apr. 8, 1918 to Aug. 21, 1961, water-stage recorder at site 0.7 mi downstream at datum 3.36 ft lower. Aug. 22, 1961 to Sept. 18, 1984, at site 650 ft upstream at same datum. U.S. Geological Survey data collection platform with satellite telemetry at station.

REMARKS.—Records good except those for estimated daily discharges, which are poor. Diversions for irrigation of about 130,000 acres of hay meadows upstream from station. Transbasin diversions upstream from station to Cache la Poudre River Basin.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	43 42 54 62 62	63 69 88 106 e93	e140 e140 e140 e130 e120	e86 e84 e82 e80 e78	e88 e86 e86 e88 e86	e86 e80 e83 e85 e89	286 289 296 290 255	155 136 118 105 112	289 247 212 188 252	1,030 913 660 500 454	196 179 166 152 143	100 90 81 82 97
6 7 8 9 10	58 56 54 52 51	e72 e72 e74 e80 e83	e110 e110 e100 e90 e83	e80 e82 e84 e88 e86	e86 e86 e88 e86 e84	e90 e90 e92 e95 e97	265 287 282 297 323	162 221 247 259 271	427 602 635 595 546	426 382 316 267 247	130 130 113 101 90	134 135 116 105 99
11 12 13 14 15	50 49 49 49 49	e85 e90 e90 e93 e93	e80 e80 e80 e80 e80	e86 e84 e83 e84 e84	e84 e80 e81 e82 e84	e100 e100 e110 e110 e130	329 327 336 321 275	292 316 328 302 280	550 493 449 415 380	243 243 226 245 250	83 81 79 75 72	90 89 82 79 84
16 17 18 19 20	49 50 49 49 50	e93 e93 e92 e90 e86	e80 e80 e80 e80 e83	e84 e84 e80 e82 e84	e86 e88 e90 e90 e88	e140 e160 e200 e270 e350	235 205 203 226 248	215 169 144 130 145	394 503 785 976 823	352 777 606 465 380	68 65 66 92 153	85 79 73 71 76
21 22 23 24 25	51 51 51 50 48	e78 e70 e78 e86 e94	e86 e83 e80 e76 e80	e82 e82 e84 e86 e86	e86 e88 e92 e94 e96	e460 e600 e800 e930 792	254 265 272 233 236	214 273 303 288 287	850 1,150 888 573 467	387 355 456 442 346	211 214 173 138 117	121 243 291 314 341
26 27 28 29 30 31	e45 52 53 52 52 52 56	e100 e110 e110 e120 e130	e84 e80 e80 e80 e82 e84	e84 e86 e88 e90 e92 e90	e98 e98 e94 e90 	717 637 530 389 348 316	211 164 141 141 158	313 269 237 219 269 323	460 460 477 454 703	301 268 236 220 206 201	104 108 153 150 133 115	296 274 265 266 299
TOTAL MEAN MAX MIN AC-FT	1,588 51.2 62 42 3,150	2,681 89.4 130 63 5,320	2,861 92.3 140 76 5,670	2,615 84.4 92 78 5,190	2,553 88.0 98 80 5,060	9,076 293 930 80 18,000	7,650 255 336 141 15,170	7,102 229 328 105 14,090	16,243 541 1,150 188 32,220	12,400 400 1,030 201 24,600	3,850 124 214 65 7,640	4,557 152 341 71 9,040
STATISTI MEAN	ICS OF MON 158	NTHLY MEA 151	N DATA FC 104	OR WATER YI 83.5	EARS 1904 - 88.9	- 2004, BY W 177	ATER YEAI 737	R (WY) 1,111	1,449	624	259	147
MAX (WY) MIN (WY)	538 (1962) 31.7 (1935)	366 (1962) 54.2 (1935)	215 (1998) 33.9 (1977)	177 (1984) 27.5 (1977)	199 (1986) 35.7 (1933)	722 (1986) 47.8 (1964)	2,444 (1962) 131 (1981)	3,649 (1984) 96.1 (2002)	3,296 (1983) 89.4 (1934)	2,367 (1957) 26.7 (1934)	763 (1983) 33.3 (2002)	712 (1997) 23.8 (1934)
SUMMAR	RY STATIST	TICS		FOR 2003 CA	ALENDAR '	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 1	904 - 2004
LOWEST		1EAN		109,947 301 3,300	Jun	2	73,17 20 1,15	00	n 22	8	125 378 91.5 150	1917 2002 Jun 10, 1923
LOWEST ANNUAL MAXIMU MAXIMU	DAILY ME. SEVEN-DA M PEAK FL M PEAK ST	AN AY MINIMUM OW AGE	1	42 e47	Oct Jan	2	1,19 1,19	12 Oc 19 Oc 10 Jui 14.17 Jui	t 2 t 12 t 12 1 22	a6,7	15 16 720 c9.65	Sep 6,7 2002 Sep 2, 2002 Jun 11, 1923 Apr 25, 1980
ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				218,100 598 105 52			145,10 45 10	54			200 190 159 68	

e Estimated.

a Gage height, 6.34 ft, site and datum then in use.

b Maximum gage height, 6.33 ft, Mar 23, backwater from ice.

c Backwater from ice, site and datum then in use.

## 06693800 MOSQUITO CREEK NEAR ALMA, CO

 $LOCATION.--Lat\ 39^{\circ}16'12", long\ 106^{\circ}03'02", in\ SE^{1}_{4}NE^{1}_{4}\ sec. 13, T.9\ S., R.78\ W., Park\ County, Hydrologic\ Unit\ 10190001, on\ left\ bank\ 0.1\ mi\ upstream\ from\ confluence\ with\ Middle\ Fork\ South\ Platte\ River,\ and\ 1.2\ mi\ south\ of\ Alma.$ 

DRAINAGE AREA.--16.2 mi<sup>2</sup>.

 $PERIOD \ OF \ RECORD. --October \ 1998 \ to \ current \ year. \ For a \ complete \ listing \ of \ historical \ data \ available \ for this \ site, see \ http://waterdata.usgs.gov/co/nwis/inventory/ \\ ?site\_no=06693800$ 

 $GAGE.--Water-stage\ recorder\ with\ satellite\ telemetry.\ Elevation\ of\ gage\ is\ 10,220\ ft\ above\ NGVD\ of\ 1929,\ from\ topographic\ map.$ 

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by minor diversions for irrigation, and return flow from irrigated areas.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	8.8 9.4 12 11 10	5.0 5.1 e5.6 e5.6 e5.9	e5.2 e4.7 e4.5 e4.4 e4.4	e3.1 e3.1 e3.1 e3.1	e3.5 e3.6 e3.8 e3.9 e3.9	e3.8 e3.8 e3.8 e3.8	5.0 4.9 4.5 4.9	7.6 8.3 9.6 11	26 29 37 48 53	44 39 36 33 30	15 15 15 14 15	7.3 7.1 7.0 7.2 7.9
6 7 8 9 10	9.6 9.0 8.5 8.3 8.0	e5.6 e5.5 5.4 5.2 5.5	e4.2 e3.9 e3.9 e3.9 e3.9	e3.1 e3.1 e3.1 e3.1	e3.9 e3.9 e3.9 e3.9 e3.9	e3.8 e3.9 e4.4 e4.5 e4.7	3.8 3.9 4.6 4.7 4.4	17 20 23 24 28	62 70 69 70 66	30 29 29 28 27	14 13 12 11	7.5 7.0 6.8 6.8 6.9
11 12 13 14 15	8.4 7.8 7.5 7.3 7.2	e5.3 e5.8 e5.8 6.0 6.2	e3.6 e3.5 e3.5 e3.5 e3.5	e3.1 e3.1 e3.2 e3.3 e3.5	e3.9 e3.9 e3.9 e3.9 e3.9	e4.7 e5.0 e5.0 e5.0 e5.0	4.5 4.5 4.8 5.2 5.4	32 29 23 19 18	47 38 37 45 48	27 26 26 27 29	10 9.9 9.6 9.2 9.0	6.8 6.6 6.4 6.2 6.2
16 17 18 19 20	6.9 6.8 6.7 6.6 6.5	e5.9 e5.9 e5.9 e5.5 e5.5	e3.5 e3.3 e3.3 e3.3 e3.3	e3.5 e3.5 e3.5 e3.5 e3.5	e3.9 e3.9 e3.8 e3.8	e5.2 e5.2 e5.5 e5.6 e5.6	5.8 6.6 6.6 5.9 6.0	18 19 24 36 51	45 42 44 42 41	32 49 45 36 33	9.0 9.3 10 17 13	6.0 5.9 5.8 6.3 6.3
21 22 23 24 25	6.4 5.8 5.3 5.2 5.2	e5.5 e5.5 e5.3 e5.3	e3.0 e3.0 e3.0 e3.0 e3.0	e3.5 e3.5 e3.5 e3.5 e3.5	e3.8 e3.8 e3.8 e3.8	e5.9 e5.9 6.0 5.6 6.0	5.8 5.3 7.0 6.9 5.8	52 48 40 38 37	40 34 31 31 32	30 28 27 26 23	11 11 11 9.8 9.1	8.0 7.7 7.5 7.8 8.2
26 27 28 29 30 31	5.7 5.2 5.4 5.2 5.0 5.1	e5.3 e5.3 e5.3 e5.3 e5.3	e3.0 e3.0 e3.0 e3.0 e3.0 e3.0	e3.5 e3.5 e3.5 e3.5 e3.5 e3.5	e3.8 e3.8 e3.8 e3.8	6.6 5.0 4.6 5.5 6.8 5.2	6.1 7.4 7.5 7.1 6.7	35 35 39 44 34 28	36 35 36 39 48	21 20 19 16 16 15	8.7 9.0 9.0 8.3 8.0 7.7	8.3 7.7 7.6 7.8 8.4
TOTAL MEAN MAX MIN AC-FT	225.8 7.28 12 5.0 448	165.6 5.52 6.2 5.0 328	110.3 3.56 5.2 3.0 219	103.2 3.33 3.5 3.1 205	111.2 3.83 3.9 3.5 221	155.2 5.01 6.8 3.8 308	166.5 5.55 7.5 3.8 330 VATER YEAR	861.5 27.8 52 7.6 1,710	1,321 44.0 70 26 2,620	896 28.9 49 15 1,780	343.6 11.1 17 7.7 682	213.0 7.10 8.4 5.8 422
MEAN MAX (WY) MIN (WY)	8.59 10.0 (2000) 6.80 (2003)	6.63 7.63 (2000) 5.38 (2003)	4.29 5.75 (2000) 3.47 (2003)	3.68 5.03 (2000) 3.09 (2002)	3.72 4.45 (2000) 2.98 (2002)	4.16 5.01 (2004) 3.41 (2002)	6.36 8.57 (2003) 5.33 (1999)	34.2 49.7 (2001) 15.3 (2002)	60.4 116 (1999) 17.0 (2002)	34.8 67.1 (1999) 6.89 (2002)	17.1 33.3 (1999) 5.31 (2002)	11.2 15.8 (1999) 5.30 (2002)
SUMMAF	RY STATIST	ICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 19	99 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS		И	5,814.9 15.9 118 May 29 e3.0 Dec 21 e3.0 Dec 21 11,530 46 6.7 3.3			4,672.9 12.8 70 Jun 7 e3.0 Dec 21 e3.0 Dec 21 93 Jun 9 5.65 Jun 9 9,270 36 6.1 3.5				e2.9 H e2.9 H 217 J 6.34 J	1999 2002 Jun 24, 1999 Feb 8, 2002 Feb 8, 2002 Jun 23, 1999 Jun 23, 1999	

e Estimated.

## 06696980 TARRYALL CREEK AT UPPER STATION, NEAR COMO, CO

LOCATION.--Lat 39°20′22″, long 105°54′40″, in NE $^1$ / $_4$ Sw $^1$ / $_4$ sec.20, T.8 S., R.76 W., Park County, Hydrologic Unit 10190001, on left bank 200 ft upstream from culvert on County Road 33, and 1.8 mi northwest of Como.

DRAINAGE AREA.--23.7 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1978 to September 1986. May 2002 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06696980

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,935 ft above NGVD of 1929, from topographic map. Prior to July 15, 1980, at site 250 ft downstream at different datum. July 15, 1980 to Sept. 30, 1986 at current site, different datum.

REMARKS .-- Records good except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, not determined; maximum daily, 170 ft<sup>3</sup>/s, June 12, 1980; maximum gage height, 5.39 ft, June 1, 2003; minimum daily, 1.5 ft<sup>3</sup>/s, Apr. 5, 1981.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 28 ft<sup>3</sup>/s, June 18, gage height, 4.46 ft; minimum daily, 5.0 ft<sup>3</sup>/s, Apr. 1-3.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2							e5.0 e5.0	6.9 7.7	22 21	20 18	9.6 9.3	7.1 6.9
3							e5.0	8.1	21	17	9.0	6.9
4							e5.2	8.7	21	16	9.0	6.9
5							e5.3	9.5	22	16	11	7.1
6							5.4	11	23	16	9.5	7.0
7							5.4	13	25	15	8.3	6.6
8							6.2	14	26	14	7.8	6.4
9							6.3	16	26	13	7.5	6.2
10							5.5	17	27	13	6.8	6.2
11							5.6	19	25	12	6.8	6.2
12							5.9	20	24	12	6.9	5.9
13							5.9	19	22	12	7.0	5.8
14							6.2	18	22	11	6.7	5.6
15							6.2	17	22	12	6.5	5.6
16							6.3	18	22	17	6.5	5.4
17							6.6	18	22	21	6.7	5.4
18							6.5	18	24	17	9.6	5.4
19							6.1	21	22	15	14	5.5
20							5.9	23	21	15	11	5.6
21							5.9	24	22	15	10	7.9
22							5.5	25	21	14	10	7.2
23							5.4	25	19	16	9.7	7.3
24							5.6	24	19	15	8.9	8.1
25							6.4	24	21	e14	8.4	7.9
26							6.6	23	20	e14	8.0	7.3
27							7.1	23	20	e12	8.1	6.9
28							7.1	23	21	11	8.5	7.2
29							6.7	23	21	11	7.8	7.1
30							6.9	24	23	10	7.6	7.2
31								23		10	7.4	
TOTAL							178.7	563.9	667	444	263.9	197.8
MEAN							5.96	18.2	22.2	14.3	8.51	6.59
MAX							7.1	25	27	21	14	8.1
MIN							5.0	6.9	19	10	6.5	5.4
AC-FT							354	1,120	1,320	881	523	392

e Estimated.

#### 06700000 SOUTH PLATTE RIVER ABOVE CHEESMAN LAKE, CO

LOCATION.--Lat 39°09'46", long 105°18'35", in T.10 S., R.71 W., Douglas County, Hydrologic Unit 10190002, on right bank about 200 ft upstream from high water mark of Cheesman Lake, and 8.0 mi south-southwest of Deckers.

DRAINAGE AREA.--1628 mi<sup>2</sup>, of which 11.9 mi<sup>2</sup> is noncontributing.

PERIOD OF RECORD.--July 1899 to December 1901, October 1924 to September 1943 (no winter records in water years 1931-33, 1935-39, 1942-43). August 2002 to current year (seasonal records only). Published as South Fork South Platte River at Lake Cheesman, 1899; "below Lake Cheesman", 1900; and South Fork South Platte River at Cheesman, 1901. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/ inventory/?site\_no=06700000

GAGE.—Water-stage recorder with satellite telemetry. Elevation of gage is 6,845 ft above NGVD of 1929, from topographic map. July 31, 1899 to Dec. 31, 1901, staff gage at site within 4.5 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records fair. Natural flow of stream affected by minor transmountain diversion from Colorado River Basin through Boreas Pass Ditch, Antero and Elevenmile Canyon Reservoirs, diversions for irrigation of about 40,000 acres, and return flow from irrigated areas.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum discharge, 4,690 ft³/s, July 28, 2003, gage height, 11.54 ft; minimum daily, 3 ft³/s, Jan. 9, 12, 1925, but may have been less during periods of no gage-height record.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 512 ft<sup>3</sup>/s, July 16, gage height, 6.33 ft; minimum daily, 53 ft<sup>3</sup>/s, Apr. 2.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							54	100	138	224	170	132
2							53	92	145	183	160	136
3							66	87	151	160	148	132
4							63	83	153	155	140	131
5							56	82	156	152	143	126
6							54	80	147	151	144	131
7							60	79	139	151	150	125
8							67	78	183	143	162	122
9							81	75	170	139	158	124
10							89	76	170	151	152	114
11							88	88	214	140	140	116
12							88	104	224	138	137	112
13							85	126	224	129	125	112
14							86	152	222	158	126	114
15							83	171	223	151	130	110
16							79	171	236	204	129	113
17							73	167	244	226	122	110
18							66	170	276	209	127	110
19							59	162	246	212	148	113
20							57	153	222	251	159	113
21							56	133	218	248	163	112
22							64	142	226	248	164	116
23							76	144	213	289	169	113
24							81	132	209	296	166	112
25							96	128	197	275	156	120
26							99	135	211	252	146	117
27							98	151	231	247	152	127
28							100	154	253	242	140	141
29							102	148	246	187	126	148
30							103	144	250	172	128	148
31								143		173	127	
TOTAL							2,282	3,850	6,137	6,056	4,507	3,650
MEAN							76.1	124	205	195	145	122
MAX							103	171	276	296	170	148
MIN							53	75	138	129	122	110
AC-FT							4,530	7,640	12,170	12,010	8,940	7,240

## 06701500 SOUTH PLATTE RIVER BELOW CHEESMAN LAKE, CO

LOCATION.--Lat 39°12'33", long 105°16'02", in SE  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.6, T.10 S., R.70 W., Jefferson County, Hydrologic Unit 10190002, on left bank 1,400 ft downstream from toe of Cheesman Dam, and 3.8 mi southwest of Deckers.

DRAINAGE AREA.--1,752 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1924 to September 1998, October 2001 to current year. Monthly discharge only for some periods, published in WSP 1310. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06701500

REVISED RECORDS .-- WSP 1310: 1949. WSP 1730: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry, and Parshall flume. Datum of gage is 6,609.29 ft above NGVD of 1929. Prior to May 14, 1956, at site 370 ft upstream at datum 0.50 ft higher.

REMARKS.—No estimated daily discharges. Records good. Natural flow of stream affected by minor transmountain diversion from Colorado River Basin through Boreas Pass Ditch, Antero and Elevenmile Canyon Reservoirs, diversions for irrigation of about 40,000 acres, and return flow from irrigated areas. Flow completely regulated by Cheesman Lake (station 06701000).

COOPERATION .-- Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	178 92 57 49 50	47 46 47 47 47	71 42 42 42 42	36 36 37 38 37	36 36 52 65 49	89 119 135 134 109	36 36 36 35 35	49 50 50 50 48	47 47 47 45 45	53 53 108 194 203	381 355 346 397 452	196 211 221 221 160
6 7 8 9 10	50 50 49 48 48	47 47 47 47 47	42 42 43 45 45	37 37 37 37 38	34 34 34 35 37	87 87 87 87 87	35 35 35 35 35 35	48 74 103 103 93	45 67 94 111 136	145 101 101 133 156	498 497 440 341 248	103 103 141 177 206
11 12 13 14 15	48 48 49 50 49	47 47 47 47 47	45 45 44 45 43	38 72 113 113 113	38 38 38 38 38	71 49 39 39 39	35 36 36 49 98	64 51 52 53 53	136 136 136 138 118	140 130 132 147 156	205 205 205 204 203	225 225 225 253 273
16 17 18 19 20	48 48 48 48	47 47 47 48 48	40 52 59 59 59	97 86 86 86 86	38 38 38 38 37	38 38 38 38 38	97 121 148 125 83	53 53 53 53 87	89 89 81 73 73	145 91 54 91 176	273 321 321 212 103	272 315 343 340 340
21 22 23 24 25	48 48 48 48	73 103 101 101 102	59 45 35 35 35	69 57 57 57 57	36 36 36 38 47	38 36 36 37 37	70 70 70 69 71	173 123 89 89 66	79 83 83 84 110	256 308 324 336 336	76 114 185 215 216	340 284 213 179 179
26 27 28 29 30 31	48 47 47 47 47 47	103 103 103 103 103	35 35 35 35 35 35	57 57 44 36 36 36	63 71 71 71 	36 37 37 36 36 36 35	70 71 57 48 48	48 48 48 48 45 46	130 103 65 53 53	290 244 244 244 268 314	202 192 194 194 196 196	177 218 248 247 219
TOTAL MEAN MAX MIN AC-FT	1,678 54.1 178 47 3,330	1,936 64.5 103 46 3,840	1,366 44.1 71 35 2,710	1,823 58.8 113 36 3,620	1,260 43.4 71 34 2,500	1,849 59.6 135 35 3,670	1,825 60.8 148 35 3,620	2,063 66.5 173 45 4,090	2,596 86.5 138 45 5,150	5,673 183 336 53 11,250	8,187 264 498 76 16,240	6,854 228 343 103 13,590
	ICS OF MO 130	NTHLY MEA 68.7		OR WATER Y		- 2004, BY W 56.5	ATER YEAF 145	` /	226	254	340	207
MEAN MAX (WY) MIN (WY)	380 (1985) 12.9 (1965)	266 (1985) 6.33 (1960)	52.6 184 (1996) 5.26 (1926)	57.4 156 (1998) 5.26 (1926)	55.4 169 (1998) 2.76 (1957)	208 (1986) 3.11 (1957)	932 (1942) 2.00 (1957)	277 1,716 (1970) 11.0 (1938)	326 1,088 (1995) 38.5 (1989)	354 1,451 (1995) 53.5 (1967)	984 (1984) 66.7 (1978)	517 (1998) 33.5 (1978)
SUMMAR	RY STATIST	ΓICS		FOR 2003 C	ALENDAR '	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 192	25 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL	MEAN ANNUAL ANNUAL DAILY ME DAILY ME SEVEN-DA M PEAK FI M PEAK ST RUNOFF (	MEAN EAN AN AY MINIMUN LOW FAGE AC-FT)	М	34,178 93 568 22 25 67,790	.6 Sep May May	20	3 50 73,61	18 Aug 4 Fet 5 Dec 19 Aug 2.59 Aug	6 23 5	4,5 4,0 125,4	a1.6 A 1.6 A 540 A 13.40 A	1970 1978 ppr 29, 1970 ppr 8, 1957 ppr 8, 1957 ppr 29, 1970 ppr 29, 1970
ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			148 56 35			225 426 57 97 36 19			97			

a Also occurred Apr 9-14, 1957.

## 06701550 FOURMILE CREEK ABOVE MOUTH, NEAR DECKERS, CO

LOCATION.--Lat 39°13′50", long 105°13′29", in SW \(^1\_4\)SE \(^1\_4\) sec.28, T.9 S., R.70 W., Douglas County, Hydrologic Unit 10190002, on left bank 1.0 mi upstream of mouth, and 2.0 mi south of Deckers.

DRAINAGE AREA.--7.40 mi<sup>2</sup>.

PERIOD OF RECORD.--May 2003 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06701550

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,740 ft above NGVD of 1929, from topographic map.

REMARKS .-- Records poor.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum discharge, 934 ft<sup>3</sup>/s, May 30, 2003, gage height, 11.35 ft; minimum daily, 0.27 ft<sup>3</sup>/s (estimated), Sept. 28, 2003.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 431 ft<sup>3</sup>/s, Aug 5, gage height, 10.10 ft; minimum daily, 0.46 ft<sup>3</sup>/s (estimated), July 12-14.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								e5.3	e0.85	e2.2	e1.2	e0.99
2								e4.4	e0.81	e1.4	e0.99	e0.94
3								e3.5	e0.81	e1.2	e0.96	e0.94
4								e3.3	e0.85	e1.1	e0.94	e0.90
5								e2.9	e0.78	e0.99	16	e0.96
6								e2.5	e0.78	e0.72	e5.3	e0.89
7								e2.2	e0.74	e0.64	e3.1	e0.91
8								e1.9	e0.60	e0.55	e2.5	e0.89
9								e2.1	e0.60	e0.53	e2.1	e0.83
10								e2.4	e0.60	e0.62	e1.8	e0.79
11								e2.3	e0.53	e0.57	e1.6	e0.75
12								e2.6	e0.47	e0.46	e1.4	e0.73
13								e2.9	e0.50	e0.46	e1.2	e0.61
14								e2.9	e0.49	e0.46	e1.1	e0.57
15								e3.5	e0.51	e0.59	e1.0	e0.61
16								e3.0	e0.54	e0.68	e1.0	e0.53
17								e2.6	e0.95	e0.79	e0.95	e0.51
18								e2.1	e0.95	e0.90	e0.94	e0.57
19								e1.7	e0.95	e0.92	e2.0	e0.57
20								e1.4	e0.88	e3.1	e2.1	e0.62
21								e1.4	e0.91	e2.2	e2.4	e0.63
22								e1.2	e1.1	e1.7	e2.6	e0.75
23								e1.1	e1.1	e1.6	e2.1	e0.77
24								e0.98	e1.1	e3.7	e1.6	e0.77
25								e0.98	e1.1	e4.4	e1.3	e0.77
26								e0.98	e1.1	e2.9	e1.2	e0.77
27								e0.95	5.9	e2.4	e1.8	e0.79
28								e0.91	e1.6	e1.9	e1.6	e0.98
29								e0.91	e1.2	e1.7	e1.2	e0.98
30								e0.91	e1.5	e1.4	4.4	e1.1
31								e0.85		e1.3	e1.2	
TOTAL								66.67	30.80	44.08	69.58	23.42
MEAN								2.15	1.03	1.42	2.24	0.78
MAX								5.3	5.9	4.4	16	1.1
MIN								0.85	0.47	0.46	0.94	0.51
AC-FT								132	61	87	138	46

e Estimated.

## 06701620 TROUT CREEK BELOW FERN CREEK NEAR WESTCREEK, CO

LOCATION.--Lat 39°10'03", long 105°07'18", in  $SE^{1}_{/4}SE^{1}_{/4}$  sec.21, T.10 S., R.69 W., Douglas County, Hydrologic Unit 10190002, on right bank about 400 ft downstream from lower Rainbow Falls Lakes, 1.1 mi downstream from Fern Creek, and 2.5 mi east of the community of Westcreek.

DRAINAGE AREA.--106 mi<sup>2</sup>.

PERIOD OF RECORD.--May 2003 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06701620

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,440 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. No diversions upstream from station. Significant contribution of flow from natural spring at Rainbow Falls Park. EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum discharge, 70 ft<sup>3</sup>/s, July 24, 2004, gage height, 4.18 ft; minimum daily, 0.79 ft<sup>3</sup>/s, Aug. 22, 2003. EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 70 ft<sup>3</sup>/s, July 24, gage height, 4.18 ft; minimum daily, 1.2 ft<sup>3</sup>/s, July 14.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							4.0	28	2.6	18	12	5.3
2							4.0	22	2.7	11	8.2	4.3
3							4.9	20	2.6	7.6	6.2	4.3
4							5.5	19	2.8	5.4	5.6	4.1
5							6.7	17	2.6	4.6	15	4.3
6							7.7	13	2.4	3.6	20	4.0
7							8.1	9.6	2.3	2.8	14	4.0
8							13	7.9	2.2	2.1	11	3.8
9							15	8.3	2.1	1.7	11	3.5
10							16	10	1.9	2.1	8.8	3.4
11							14	9.6	1.6	1.9	7.7	3.2
12							13	11	1.6	1.5	6.5	2.8
13							13	15	1.6	1.3	5.7	2.6
14							12	14	1.6	1.2	4.7	2.5
15							11	17	1.7	1.8	4.1	2.3
16							9.4	16	1.9	2.5	4.0	2.1
17							8.1	14	2.7	5.3	3.8	1.9
18							6.8	12	2.7	7.6	4.2	2.2
19							5.2	11	3.1	10	7.8	2.2
20							4.5	7.6	2.6	26	14	2.3
21							3.9	6.7	3.2	21	21	2.5
22							5.1	6.2	3.3	14	21	3.0
23							8.3	5.2	3.3	10	14	3.1
24							9.4	4.4	3.5	39	10	3.1
25							16	4.2	3.4	42	8.7	3.1
26							19	4.1	4.1	32	6.8	3.1
27							22	3.5	3.9	24	6.5	3.1
28							35	3.4	6.5	19	6.8	4.9
29							38	3.2	8.7	21	5.8	4.7
30							31	3.1	9.5	25	5.5	5.5
31								2.7		18	5.7	
TOTAL							369.6	328.7	94.7	383.0	286.1	101.2
MEAN							12.3	10.6	3.16	12.4	9.23	3.37
MAX							38	28	9.5	42	21	5.5
MIN							3.9	2.7	1.6	1.2	3.8	1.9
AC-FT							733	652	188	760	567	201

#### 06701700 WEST CREEK ABOVE SHREWSBURY GULCH NEAR WESTCREEK, CO

 $LOCATION.--Lat~39^{\circ}08'35", long~105^{\circ}09'39", in~NW^{1}_{4}NW^{1}_{4}~sec. 31, T.10~S., R.69~W., Douglas~County, Hydrologic~Unit~10190002, on~left~bank~of~J.O.~Hill~Lake, and~2,000~ft~upstream~from~Shrewsbury~Gulch, in town of~Westcreek.$ 

DRAINAGE AREA.--56.3 mi<sup>2</sup>.

PERIOD OF RECORD.--May 2003 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06701700

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,520 ft above NGVD of 1929, from topographic map.

REMARKS.--Records poor. Natural flow of the stream affected by a 24 in. pipe diversion through dam, which bypasses spillway and requires further discharges measurements on pipe discharge channel.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum discharge, 332 ft<sup>3</sup>/s, Aug. 18, 2004, gage height, 6.47 ft; minimum daily, 1.6 ft<sup>3</sup>/s (estimated), June 11-14, 2004.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood known, 2,020 ft<sup>3</sup>/s, May 7, 1973, on basis of slope-area measurement of peak flow made at location about 1.0 mi downstream from present site, caused by failure of two upstream dams.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 332 ft<sup>3</sup>/s, Aug. 18, gage height, 6.47 ft; minimum daily, 1.6 ft<sup>3</sup>/s (estimated), June 11-14.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								e28	e2.6	e11	e12	e9.2
2								e22	e2.7	e11	e8.2	e8.8
3								e20	e2.6	e7.8	e6.2	e8.8
4								e19	e2.8	e5.5	e5.6	e8.8
5								e17	e2.6	e4.8	e15	e8.7
6								e13	e2.4	e3.8	e20	e8.4
7								e9.6	e2.3	e3.0	e14	e8.3
8								e7.9	e2.2	e2.5	e11	e8.3
9								e8.3	e2.1	e2.0	e11	e8.3
10								e10	e1.9	e2.6	e8.8	e8.3
11								e9.6	e1.6	e2.4	e7.7	e8.3
12								e11	e1.6	e1.9	e6.5	e7.9
13								e15	e1.6	e1.8	e5.7	e7.8
14								e14	e1.6	e1.8	e4.7	e7.8
15								e17	e1.7	e4.5	e4.1	e7.7
16								e16	e1.9	e8.4	e4.0	e7.3
17								e14	e2.7	e5.3	e3.8	e7.3
18								e12	e2.7	e7.6	36	e7.3
19								e11	e3.1	e10	e29	e7.3
20								e7.6	e2.6	e26	e24	e7.3
21								e6.7	e3.2	e21	e21	e7.3
22								e6.2	e3.3	e14	e19	e7.3
23								e5.2	e3.3	e9.8	e18	e7.3
24								e4.4	e3.5	e16	e16	e7.3
25								e4.2	e3.4	e30	e14	e7.2
26								e4.1	e4.1	e27	e13	e6.8
27								e3.5	e3.9	e24	e12	e6.7
28								e3.4	e6.5	e19	e11	e6.7
29								e3.2	e8.7	e21	e10	e6.8
30								e3.1	e9.1	e25	e9.5	e6.9
31								e2.7		e18	e9.2	
TOTAL								328.7	94.3	348.5	390.0	232.2
MEAN								10.6	3.14	11.2	12.6	7.74
MAX								28	9.1	30	36	9.2
MIN								2.7	1.6	1.8	3.8	6.7
AC-FT								652	187	691	774	461

e Estimated.

## 06701900 SOUTH PLATTE RIVER BELOW BRUSH CREEK NEAR TRUMBULL, CO

LOCATION.--Lat 39°15′36″, long 105°13′17″, in SE $^{1}\sqrt{4}$ SE $^{1}\sqrt{4}$  sec.16, T.9 S., R.70 W., Douglas County, Hydrologic Unit 10190002, on left bank 5 mi downstream from Cheesman Reservoir, and 0.7 mi north-northeast of Deckers.

DRAINAGE AREA.--2021 mi<sup>2</sup>, of which 11.9 mi<sup>2</sup> is noncontributing.

PERIOD OF RECORD.--July 2002 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06701900

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,380 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by minor diversion from Colorado River Basin through Boreas Pass Ditch, Antero and Elevenmile Canyon Reservoirs, diversion for irrigation of about 40,000 acres, and return flow from irrigated areas. Flow mostly regulated by Cheesman Reservoir (station 0670100).

					YEAR OC		ET PER SECO TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	e185 e91 e57 48 48	47 47 47 47 46	84 48 47 48 48	42 42 42 e45 e46	e63 e63 e69 e75 e63	89 116 139 140 127	56 54 56 56 59	102 98 95 96 94	110 112 110 115 117	111 109 142 234 242	306 306 244 325 442	216 227 237 239 198
6 7 8 9 10	48 49 48 48	46 47 47 47 48	48 48 48 47 e49	e47 e47 e47 e48 e48	e57 e57 e57 e59 e59	94 95 97 100 101	60 64 66 70 71	90 e87 e86 e86 e88	118 130 153 143 139	177 105 110 127 161	511 522 473 370 281	117 115 142 188 216
11 12 13 14 15	48 48 47 46 46	48 48 48 48	e50 e50 e49 48 49	e53 e82 e98 96	e58 e58 e58 e57 e57	92 73 60 60 60	70 70 69 72 124	e86 e90 e94 e94	127 133 139 147 142	163 151 138 148 172	230 227 224 224 224	253 253 249 277 303
16 17 18 19 20	46 47 47 47 47	48 49 48 49 50	e48 e58 66 65	89 75 83 84 75	e56 56 49 51 52	60 60 62 58 59	119 134 167 148 105	100 101 102 98 112	103 e87 80 70 65	184 157 97 100 202	290 361 417 319 163	291 339 395 390 388
21 22 23 24 25	47 47 46 46 46	58 93 89 91 94	65 60 e51 e48 45	68 69 e72 e72 e74	51 51 51 51 55	61 62 63 64 62	90 92 97 98 106	220 170 125 127 113	79 87 88 91 115	280 367 392 416 405	128 141 211 247 247	378 313 224 179 180
26 27 28 29 30 31	46 47 47 46 47 47	94 94 93 95 96	44 e46 e46 e46 e45 44	e73 e75 e72 68 67 61	68 80 80 81 	61 60 59 57 56 55	111 116 116 106 105	85 89 89 96 105 106	142 148 120 104 104	318 231 239 204 213 254	230 219 218 214 224 218	182 216 271 267 243
TOTAL MEAN MAX MIN AC-FT	1,651 53.3 185 46 3,270	1,850 61.7 96 46 3,670	1,603 51.7 84 44 3,180	2,056 66.3 98 42 4,080	1,742 60.1 81 49 3,460	2,402 77.5 140 55 4,760	2,727 90.9 167 54 5,410	3,220 104 220 85 6,390	3,418 114 153 65 6,780	6,349 205 416 97 12,590	8,756 282 522 128 17,370	7,486 250 395 115 14,850
MEAN MAX (WY) MIN (WY)	127 201 (2003) 53.3 (2004)	78.5 95.4 (2003) 61.7 (2004)	87.4 123 (2003) 51.7 (2004)	82.0 97.8 (2003) 66.3 (2004)	78.9 98.4 (2003) 60.1 (2004)	81.1 84.7 (2003) 77.5 (2004)	92.8 94.7 (2003) 90.9 (2004)	86.3 104 (2004) 68.8 (2003)	92.7 114 (2004) 71.5 (2003)	140 205 (2004) 74.9 (2003)	246 330 (2002) 125 (2003)	317 436 (2003) 250 (2004)
SUMMAI	RY STATIST	TICS		FOR 2003 CA	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 200	2 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS		M	39,899 109 639 44 45 79,140 155 80 47	Sep Dec Dec	26	a1,32 85,81 24	22 Aug 12 Jan 14 Dec 20 Aug 5.59 Aug	g 7 n 1 c 29 g 5 g 5	a1,3 90,1 2	42 Ja 44 De 320 Au 5.59 Au	2003 2004 ep 8, 2003 an 1, 2004 ec 29, 2003 ag 5, 2004	

e Estimated.

a From rating curve extended above 450 ft<sup>3</sup>/s.

## 06706400 NORTH FORK SOUTH PLATTE RIVER ABOVE ELK CREEK AT PINE, CO

LOCATION.--Lat 39°24′27", long 105°19′07", in NE $^1$ / $_4$ SE $^1$ / $_4$  sec.27, T.7 S., R.71 W., Jefferson County, Hydrologic Unit 10190002, on left bank 500 ft upstream of Elk Creek and in the community of Pine.

DRAINAGE AREA.--310 mi<sup>2</sup>.

PERIOD OF RECORD.--August 2000 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06706400

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,720 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Transmountain diversions from Colorado River Basin enter above this station.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum discharge, 779 ft<sup>3</sup>/s, June 9, 2001, gage height, 4.95 ft; minimum daily, 5.7 ft<sup>3</sup>/s, Sept. 2, 2002.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 641 ft<sup>3</sup>/s, July 23, gage height, 4.72 ft; minimum daily, 110 ft<sup>3</sup>/s, Apr. 11.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	316						167	149	291	232	153	230
2	327						195	138	289	178	148	301
2 3	309						197	143	306	164	149	342
4	227						189	158	355	158	138	345
5	223						188	179	377	155	149	330
6	255						166	196	382	175	162	279
7	319						167	196	401	232	233	272
8	339						168	195	446	251	226	279
9	373						162	173	473	298	212	292
10	371						119	178	530	312	205	282
11	368						110	178	509	285	211	283
12	368						115	164	510	235	257	277
13	338						115	150	464	229	255	276
14	282						117	139	393	254	248	273
15	304						117	133	380	337	244	270
16	337						132	131	340	340	239	264
17	333						218	132	357	367	237	223
18	334						296	125	353	220	248	137
19	348						277	138	246	166	319	136
20	412						208	226	219	201	283	140
21	497						154	243	254	269	269	148
22	434						155	322	337	425	255	157
23	302						155	306	210	506	270	135
24	301						153	300	219	591	303	138
25	273						161	296	356	509	297	134
26	205						158	269	461	399	269	136
27	202						165	226	408	220	230	126
28	180						172	254	247	185	241	124
29	179						175	331	158	193	222	119
30	178						170	351	152	167	213	119
31	173							331		161	211	
TOTAL	9,407						5,041	6,450	10,423	8,414	7,096	6,567
MEAN	303						168	208	347	271	229	219
MAX	497						296	351	530	591	319	345
MIN	173						110	125	152	155	138	119
AC-FT	18,660						10,000	12,790	20,670	16,690	14,070	13,030

#### 06707500 SOUTH PLATTE RIVER AT SOUTH PLATTE, CO

LOCATION.--Lat 39°24'33", long 105°10'10", in SE<sup>1</sup>/<sub>4</sub> sec.25, T.7 S., R.70 W., Jefferson County, Hydrologic Unit 10190002, on left bank at South Platte, 200 ft downstream from bridge on State Highway 75, and 400 ft downstream from North Fork South Platte River.

DRAINAGE AREA.--2,579 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1887 to September 1891, May to October 1892, October 1895 to September 1897, October 1898 to June 1900, October 1900 to September 1982, October 2001 to current year. Monthly discharge only for some periods, published in WSP 1310. Published as "at" or "near Deansbury," "at Deansbury and Platte Canyon," "at" or "near Platte Canyon," prior to 1901, and "below North Fork, at South Platte" 1914. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06707500

REVISED RECORDS.--WSP 306: 1910. WSP 1310: 1887-91, 1893, 1896, 1900, 1904, 1915(M), 1922(M), 1936(M). WSP 1730: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 6,078.43 ft above NGVD of 1929. See WSP 1710 or 1730 for history of changes prior to Mar. 14, 1910.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions through Boreas Pass Ditch, Homestake Pipeline, Harold D. Roberts Tunnel, and Antero and Elevenmile Canyon Reservoirs, Cheesman Lake, diversions above station for irrigation of about 45,000 acres, and return flow from irrigated areas.

DISCHARGE, CUBIC FEET PER SECOND

COOPERATION .-- Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

	WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	519	237	232	e139	e124	221	243	296	359	411	593	446
2	430	237	178	e158	e110	248	280	275	356	343	620	499
3	394	240	156	e145	e120	289	296	272	364	315	555	550
4	291	219	156	e101	e163	306	285	282	406	413	614	553
5	281	189	168	e81	e174	306	285	304	428	424	686	541
6	291	186	150	e123	e133	260	263	320	428	409	786	396
7	361	193	150	e146	e140	264	270	316	435	406	827	385
8	369	233	150	e157	e146	269	283	354	508	408	795	387
9	404	235	154	e151	e161	274	287	334	533	453	679	461
10	401	250	141	e139	e108	293	239	331	628	507	567	464
11	400	220	154	e130	e108	294	222	313	616	491	482	500
12	401	211	154	e118	e137	273	227	278	616	420	522	494
13	387	215	145	e240	e164	259	224	281	594	411	518	490
14	331	213	166	e227	e177	254	226	264	523	430	492	499
15	337	210	166	e242	e192	257	260	252	519	535	487	535
16	375	203	136	e228	e186	263	271	247	447	557	509	530
17	370	224	156	e193	e187	263	343	240	490	609	592	530
18	372	221	e169	e171	e194	270	468	234	496	403	609	486
19	378	223	e169	e179	e190	303	456	235	393	321	708	481
20	416	232	e176	e190	e181	309	362	301	360	452	517	485
21	494	227	e176	e163	e183	312	272	420	363	562	437	494
22	471	231	e160	e128	e179	315	276	484	474	798	427	503
23	354	213	e124	e150	e172	296	286	413	347	881	480	398
24	349	210	e136	e159	e186	293	278	405	326	1,050	556	342
25	340	240	e144	e148	e182	277	300	399	437	981	547	340
26 27 28 29 30 31	270 273 246 242 240 238	231 225 229 236 243	e146 e116 e99 e104 e152 e146	e135 e123 e155 e135 e117 e129	e200 e213 e214 226	266 241 222 180 182 181	304 313 330 322 321	356 307 316 385 406 399	591 578 441 333 304	840 593 555 575 526 552	522 465 482 457 448 449	343 351 426 411 398
TOTAL	11,025	6,676	4,729	4,800	4,850	8,240	8,792	10,019	13,693	16,631	17,428	13,718
MEAN	356	223	153	155	167	266	293	323	456	536	562	457
MAX	519	250	232	242	226	315	468	484	628	1,050	827	553
MIN	238	186	99	81	108	180	222	234	304	315	427	340
AC-FT	21,870	13,240	9,380	9,520	9,620	16,340	17,440	19,870	27,160	32,990	34,570	27,210
				OR WATER YI				, ,				
MEAN	251	171	124	116	114	136	334	724	864	681	590	356
MAX	664	407	266	244	248	476	1,955	2,979	3,047	1,855	1,694	1,900
(WY)	(1910)	(1924)	(2003)	(2002)	(2003)	(1910)	(1942)	(1942)	(1921)	(1914)	(1914)	(1909)
MIN	61.5	49.3	45.2	45.6	36.5	52.1	98.2	180	127	85.3	81.0	81.6
(WY)	(1903)	(1905)	(1940)	(1940)	(1933)	(1957)	(1912)	(1902)	(1902)	(1902)	(1902)	(1902)
SUMMAI	RY STATIST	TICS		FOR 2003 CA	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	(a)WATE	R YEARS 18	896 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS		М	119,853 328 750 Sep 8 e99 Dec 28 e124 Dec 23 237,700 515 291		120,601 330 1,050 Jul 24 e81 Jan 5 e124 Dec 23 1,150 Aug 5 4.20 Aug 5 239,200 537 294		6, 1 c6, 269,	b10 D 28 F 320 J 8.95 J	1914 1902 un 7, 1921 lec 5, 1899 eb 6, 1933 un 8, 1921 un 8, 1921			
	ENT EXCEE			169			14			•	80	

e Estimated.

a Water year 1983 to 2001 data were published by Colorado Division of Water Resources.

b Minimum daily determined.

c From rating curve extended above 3,500 ft<sup>3</sup>/s. Flood of Jul 12, 1996 may have been higher; peak data being reviewed.

## 06708800 EAST PLUM CREEK BELOW HASKINS GULCH NEAR CASTLE ROCK, CO

 $LOCATION.--Lat\ 39^{\circ}25'28'', long\ 104^{\circ}54'27'', in\ SE^{1}_{4}SE^{1}_{2}\ sec. 20,\ T.7\ S.,\ R.67\ W.,\ Douglas\ County,\ Hydrologic\ Unit\ 10190002,\ on\ right\ bank\ at\ the\ Plum\ Creek\ Wastewater\ Treatment\ Plant,\ 0.1\ mi\ southwest\ of\ Happy\ Canyon\ Road,\ 3.0\ mi\ south\ of\ Sedalia,\ and\ 3.6\ mi\ northwest\ of\ Castle\ Rock.$ 

DRAINAGE AREA.--117 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1999 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06708800

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,940 ft above NGVD of 1929, from topographic map.

REMARKS.--Records poor. Diversions upstream from station for irrigation.

					DISCHARGE R YEAR OC DAI		TO SEPTEM					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	2.4 1.9 2.1 2.2 2.3	3.2 2.9 2.9 2.8 3.0	2.2 2.1 2.1 1.9 2.2	2.9 2.8 2.9 2.6 2.2	4.0 3.9 4.2 4.6 4.3	5.3 4.6 4.5 5.0 6.2	3.9 4.9 13 6.5 5.7	28 24 21 19 22	4.5 3.5 3.3 2.8 2.5	7.1 5.6 3.8 2.9 2.2	4.7 4.7 4.3 16 19	8.6 8.4 7.5 8.1 7.6
6 7 8 9 10	2.3 2.3 2.3 2.5 2.6	2.9 2.7 2.9 3.0 3.3	2.5 2.5 2.5 2.3 2.5	2.8 3.4 3.4 3.4 3.4	4.4 5.2 5.8 5.5 5.5	4.8 4.8 4.9 4.9 5.0	5.5 6.1 6.9 7.4 9.7	21 20 19 18 17	2.5 2.2 2.3 2.7 2.4	1.8 1.6 1.7 1.6 4.5	16 11 10 9.9 9.3	6.4 6.5 5.3 5.3 5.2
11 12 13 14 15	2.8 2.5 2.7 2.2 2.2	2.6 2.1 2.6 3.2 3.2	2.8 2.7 2.5 2.8 2.3	3.5 4.1 3.9 3.8 3.8	4.1 e4.0 e4.1 e4.2 e4.6	4.7 4.5 4.2 3.9 4.1	8.7 12 9.3 7.6 6.5	16 18 24 20 18	2.1 1.9 1.8 1.7 1.8	3.2 1.3 0.53 0.39 0.51	8.4 8.8 7.7 6.8 6.8	4.8 4.4 3.9 3.5 3.1
16 17 18 19 20	2.3 2.5 2.4 2.4 2.6	3.0 3.1 3.2 3.1 3.0	2.6 3.3 3.2 3.1 3.1	3.6 3.6 3.8 3.5 3.4	e4.7 e4.8 e4.9 e4.9 e4.9	3.9 4.1 4.0 3.9 3.7	6.3 6.1 5.7 5.0 4.6	17 15 14 11 9.2	7.4 8.2 14 7.8 4.4	1.7 15 20 20 15	6.1 5.7 102 84 22	2.8 2.7 2.5 2.5 2.2
21 22 23 24 25	2.6 2.7 2.7 2.7 2.8	3.0 2.8 2.4 2.7 2.5	2.9 3.3 3.0 2.7 2.8	3.5 3.6 3.5 3.7 3.8	e4.9 e5.3 e5.6 e5.8 e5.9	3.7 4.9 4.1 3.8 4.1	5.2 8.4 22 24 24	8.5 8.1 6.0 4.8 4.3	30 15 8.7 6.7 5.7	8.9 6.9 8.7 9.0 8.7	16 14 13 11	3.1 3.0 3.0 2.8 2.9
26 27 28 29 30 31	2.9 2.9 2.8 3.0 3.0 3.4	2.4 2.6 3.4 2.5 2.4	2.9 2.5 2.2 2.4 3.0 2.9	e4.0 e4.2 e4.4 4.7 4.2 4.2	6.3 6.6 6.6 6.0	4.1 4.7 4.4 4.1 3.9 3.9	22 20 22 21 24	5.1 4.1 3.2 3.8 4.1 5.4	8.9 11 11 9.0 8.1	8.0 7.4 6.6 5.8 5.5 5.1	10 12 10 8.5 8.5 8.2	2.9 4.8 12 9.5 8.7
TOTAL MEAN MAX MIN AC-FT	79.0 2.55 3.4 1.9 157	85.4 2.85 3.4 2.1 169	81.8 2.64 3.3 1.9 162	110.6 3.57 4.7 2.2 219	145.6 5.02 6.6 3.9 289	136.7 4.41 6.2 3.7 271	334.0 11.1 24 3.9 662	428.6 13.8 28 3.2 850	193.9 6.46 30 1.7 385	191.03 6.16 20 0.39 379	485.4 15.7 102 4.3 963	154.0 5.13 12 2.2 305
MEAN MAX (WY) MIN (WY)	4.96 11.0 (2000) 1.74 (2003)	5.24 11.5 (2000) 1.90 (2003)	5.20 10.6 (2000) 2.53 (2003)	5.41 10.0 (2000) 2.25 (2003)	6.17 9.04 (2000) 3.06 (2003)	7.63 15.0 (2000) 4.41 (2004)	7ATER YEA 18.9 31.4 (2000) 3.17 (2002)	33.4 109 (1999) 3.57 (2002)	16.5 61.2 (1999) 4.77 (2002)	7.53 21.6 (1999) 2.51 (2001)	10.2 29.0 (1999) 1.46 (2001)	6.09 14.6 (1999) 2.08 (2003)
SUMMAR	RY STATIST	ICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 19	99 - 2004
SUMMARY STATISTICS  ANNUAL MEAN HIGHEST ANNUAL MEAN HIGHEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS		Л	FOR 2003 CALENDAR YEAR  3,101.57 8.50  72			2,426.03 6.63  102 Aug 18 0.39 Jul 14 1.7 Jul 9 625 Aug 18 7.38 Aug 18 4,810 15 4.1 2.3			a!	0.33 J 0.64 J 901 J	2000 2002 Apr 30, 1999 un 23, 2002 un 19, 2002 un 19, 2002	

e Estimated.

a From rating curve extended above 359 ft<sup>3</sup>/s.

#### 06709000 PLUM CREEK NEAR SEDALIA, CO

LOCATION.--Lat 39°26′18", long 104°58′57", in NE $^1$ /<sub>4</sub>SE $^1$ /<sub>4</sub> sec.15, T.7 S., R.68 W., Douglas County, Hydrologic Unit 10190002, on right bank, on south side of County Road No. 20 bridge over Plum Creek, 1.0 mi west of Sedalia, and 1.4 mi downstream from the confluence of East and West Plum Creeks. Prior to May 24, 2004, at site 100 ft upstream at old bridge location (new bridge constructed this year).

DRAINAGE AREA.--274 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1942 to September 1947, August 1990 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06709000

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,720 ft above NGVD of 1929, from topographic map. June 18, 1942 to May 3, 1944, nonrecording gage at site 100 ft upstream (at old highway bridge), at different datum. May 4, 1944 to Sept. 30, 1947, water-stage recorder at site 250 ft upstream, at different datum. Aug. 2, 1990 to May 23, 2004, at site 100 ft upstream (at old bridge location), at different datum.

REMARKS.--Records poor. Diversions upstream from station for irrigation.

COOPERATION .-- U.S. Army Corps of Engineers.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	4.0 4.5 4.5 5.6 6.7	11 14 14 15 15	e15 e15 e15 e14 e14	e10 e10 e10 e10 e11	e17 e17 e17 e17 e17	e18 e17 e16 e20 e20	e7.6 e8.6 e18 e18 e18	e105 e109 e117 e130 e141	e27 e26 e24 e20 17	45 38 31 30 27	22 19 21 59 52	14 14 16 17 24
6 7 8 9 10	7.0 5.9 5.6 5.7 6.1	17 15 15 16 16	e14 e14 e14 e13 e13	e11 e11 e12 e12 e12	e18 e18 e18 e18	e19 e19 e15 e14 e12	e16 e13 e18 e20 e20	e145 e137 e126 e120 e107	17 13 14 17 16	25 23 17 19 24	41 36 30 23 19	19 13 12 13 11
11 12 13 14 15	5.5 5.8 6.3 6.9 6.9	14 12 13 e12 e12	e13 e13 e13 e13	e13 e13 e13 e13 e13	e18 e19 e19 e19 e20	e13 e13 e13 e13	e21 e12 e10 e5.8 e8.5	e91 e81 e98 e81 e80	9.5 9.2 9.4 7.7	20 16 15 14 35	17 17 16 13 12	14 14 12 14 14
16 17 18 19 20	5.9 5.4 5.1 5.9 6.7	e12 e12 e12 e12 e12	e13 e12 e11 e11	e14 e14 e14 e14 e14	e20 e21 e21 e20 e20	e13 e13 e14 e14 e14	e7.9 e10 e10 e12 e12	e68 e59 e45 e44 e42	14 25 35 28 25	23 37 46 33 39	10 9.2 203 177 62	10 9.9 7.3 7.6 6.5
21 22 23 24 25	5.1 6.0 6.0 6.5 7.5	e12 e13 e13 e14 e14	e12 e13 e13 e10 e10	e14 e14 e13 e13 e15	e19 e18 e18 e16 e16	e15 e15 e15 e11 e10	e12 e13 e25 e31 e36	e39 e37 e32 e26 31	55 46 29 22 18	23 20 23 39 44	43 41 38 30 26	7.7 9.8 7.7 8.8 9.1
26 27 28 29 30 31	9.1 8.2 7.5 10 7.7 8.5	e14 e15 e15 e15 e15	e9.6 e9.2 e9.5 e11 e11 e10	e15 e15 e17 e17 e17 e17	e16 e16 e18 e18	e8.9 e8.9 e8.3 e8.2 e6.7 e6.3	e42 e54 e76 e92 e101	34 32 32 37 36 e29	21 29 101 55 45	39 37 36 32 26 23	23 26 28 20 19 18	9.9 13 11 8.8 9.5
TOTAL MEAN MAX MIN AC-FT	198.1 6.39 10 4.0 393	411 13.7 17 11 815	382.3 12.3 15 9.2 758	411 13.3 17 10 815	527 18.2 21 16 1,050	416.3 13.4 20 6.3 826	748.4 24.9 101 5.8 1,480	2,291 73.9 145 26 4,540	785.8 26.2 101 7.7 1,560	899 29.0 46 14 1,780	1,170.2 37.7 203 9.2 2,320	357.6 11.9 24 6.5 709
MEAN MAX (WY) MIN (WY)	9.48 31.8 (1943) 1.32 (1945)	14.9 30.6 (1943) 3.34 (1945)	12.7 29.1 (1943) 5.00 (1944)	12.3 23.3 (2000) 4.09 (1997)	7EARS 1942 - 15.1 27.8 (1944) 4.39 (2003)	18.9 38.5 (1998) 6.62 (1995)	52.5 155 (1998) 12.3 (2002)	98.8 332 (1944) 5.06 (1946)	37.3 134 (1947) 2.70 (1946)	15.6 71.2 (1947) 1.59 (1996)	19.2 147 (1945) 0.02 (1996)	7.39 24.5 (2000) 0.00 (1943)
SUMMAR	SUMMARY STATISTICS FOR 2003 CALE				CALENDAR Y	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 1942	2 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS		FOR 2003 CALENDAR YEAR  8,375.9 22.9  184 Apr 28 1.6 Jul 15 2.4 Jul 12  16,610 61 8.5 3.1			8,597.7 23.5  203 Aug 18 4.0 Oct 1 5.5 Oct 1 Not determined d7.68 Aug 18 17,050 43 15 7.7			b,c7, 19,6	a0.00 Ju 0.00 Au 700 Au f6.52 Au	1947 2002 g 8, 1945 il 11, 1943 g 29, 1943 g 8, 1945 g 8, 1945		

e Estimated.

a No flow many days, during most years.

b Site and datum then in use, from rating curve extended above 350 ft<sup>3</sup>/s on basis of slope-area determination of peak flow.

c Highest flood of actual record probably occurred Jun 16, 1965. Discharge computed at Plum Creek near Louviers was 154,000 cfs.

d From floodmark

f Maximum gage height, 7.68 ft, Aug 18, 2004, present site and datum, from floodmark.

## 06709530 PLUM CREEK AT TITAN ROAD NEAR LOUVIERS, CO

LOCATION.--Lat 39°30'27", long 105°01'26", on line between sec.20 and sec.29, T.6 S., R.68 W., Douglas County, Hydrologic Unit 10190002, on left bank, on downstream side of bridge on Titan Road, 2.4 mi north of Louviers.

DRAINAGE AREA.--315 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1984 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=06709530

REVISED RECORDS .-- WDR CO-86-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,520 ft above NGVD of 1929, from topographic map. Prior to July 10, 1996, at same site, but different datum.

REMARKS.--Records poor. Diversions upstream from station for irrigation.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.00 0.00 0.00 0.03 0.98	2.7 2.9 3.2 3.2 3.3	9.6 9.4 8.2 7.9 8.5	7.2 7.6 7.7 7.5 e8.5	12 12 12 11 11	14 14 14 13 19	3.5 4.1 8.6 14 16	94 105 105 123 132	8.2 6.7 6.3 5.1 4.4	49 45 32 28 24	21 16 17 29 65	4.4 4.2 3.6 3.2 3.2
6 7 8 9 10	1.1 1.0 1.1 1.1 1.2	3.6 3.8 3.9 4.2 4.8	9.2 8.7 8.2 8.5 9.7	8.9 e9.8 e9.4 e9.8 e9.7	12 e13 14 13 e14	17 15 13 12 12	14 7.9 11 18 18	143 134 124 110 94	3.7 3.3 2.8 3.1 3.5	25 23 18 20 20	53 38 24 21 13	2.5 2.0 1.7 1.5 1.4
11 12 13 14 15	1.1 1.2 1.3 1.3	4.5 4.6 5.0 5.0 4.9	e9.1 8.9 8.4 8.8 e9.0	9.5 8.7 9.9 10 9.9	15 e17 e17 e17 e18	11 11 10 11	15 9.7 5.5 5.8 8.5	80 77 93 79 67	3.2 3.1 3.2 3.5 3.9	20 15 13 11 25	10 9.9 8.1 6.6 5.9	1.3 1.2 1.0 0.93 0.90
16 17 18 19 20	1.3 1.3 1.3 1.5 1.6	4.7 5.1 5.0 4.6 4.9	e8.5 e8.5 8.3 7.4 6.9	9.8 9.4 10 10	e18 18 20 18 17	10 9.7 9.5 9.9	7.9 6.5 6.6 6.1 5.3	61 58 54 53 47	5.1 12 14 15 13	22 25 42 24 35	4.6 4.0 26 361 28	0.90 0.88 0.97 0.88 0.74
21 22 23 24 25	1.5 1.6 1.6 1.5 1.6	4.7 5.1 7.7 8.4 7.9	7.5 8.6 9.8 9.2 7.8	9.7 10 11 10 9.3	16 16 16 15 14	11 10 10 9.8 8.0	5.6 9.2 21 25 27	38 36 27 27 23	33 31 25 21 17	16 16 19 25 26	18 10 6.8 5.7 4.6	0.83 1.8 1.9 2.0 2.4
26 27 28 29 30 31	1.8 1.9 1.9 2.2 2.2 2.5	7.9 7.7 8.0 7.6 8.0	7.9 6.8 e7.4 e8.1 e7.9 7.5	e9.4 e9.7 e10 e11 12	14 15 15 17 	7.0 6.0 5.2 4.8 4.1 3.7	31 44 62 81 94	21 17 14 14 11 9.0	19 23 97 53 33	23 29 32 29 27 24	4.7 5.4 7.7 6.3 5.7 5.2	2.5 2.8 4.9 4.9 6.2
TOTAL MEAN MAX MIN AC-FT	40.01 1.29 2.5 0.00 79	156.9 5.23 8.4 2.7 311	260.2 8.39 9.8 6.8 516	296.4 9.56 12 7.2 588	437 15.1 20 11 867	326.7 10.5 19 3.7 648	591.8 19.7 94 3.5 1,170	2,070.0 66.8 143 9.0 4,110	475.1 15.8 97 2.8 942	782 25.2 49 11 1,550	841.2 27.1 361 4.0 1,670	67.63 2.25 6.2 0.74 134
MEAN MAX (WY) MIN (WY)	10.8 71.8 (1985) 0.00 (1995)	15.7 75.9 (1985) 2.15 (1995)	13.8 44.3 (1985) 4.40 (1996)	13.4 32.1 (1998) 4.86 (1991)	16.0 42.7 (1988) 5.14 (1990)	24.7 62.1 (1988) 6.55 (1995)	70.4 184 (1998) 8.76 (2002)	151 779 (1984) 8.15 (2002)	44.1 135 (1984) 3.75 (2002)	15.5 66.5 (1995) 0.00 (1993)	15.5 63.4 (1984) 0.00 (1993)	5.60 31.1 (1984) 0.00 (1990)
SUMMAR	Y STATIST	TICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 198	4 - 2004
SUMMARY STATISTICS  ANNUAL MEAN  HIGHEST ANNUAL MEAN  LOWEST ANNUAL MEAN  HIGHEST DAILY MEAN  LOWEST DAILY MEAN  ANNUAL SEVEN-DAY MINIMUM  MAXIMUM PEAK FLOW  MAXIMUM PEAK STAGE  ANNUAL RUNOFF (AC-FT)  10 PERCENT EXCEEDS  90 PERCENT EXCEEDS		Л	28 ( 17,92 10	1 Apr 0.00 Aug 0.00 Aug	9	36 1,70 12,59	0.00 Oc 0.44 Oc 00 Aug 7.64 Aug	g 19 t 1 t 1 g 19 g 19	1, b2, 21,	a0.00 Ju 0.00 Ju 000 Ap c8.05 Ap	1999 2002 y 15, 1984 il 2, 1989 il 2, 1989 or 30, 1999 or 30, 1999	

e Estimated.

a No flow many days, most years.
b From rating curve extended above 450 ft<sup>3</sup>/s.
c Maximum gage height, 10.63 ft, Jun 28, 1995, datum then in use.

## 06710150 BIG DRY CREEK BELOW C-470 AT HIGHLANDS RANCH, CO

 $LOCATION.--Lat~39^{\circ}33'48'', long~104^{\circ}55'38'', in~NE^{1}_{4}NE^{1}_{4}sec.6,~T.6~S.,~R.67~W.,~Douglas~County,~Hydrologic~Unit~10190002,~on~right~bank~0.2~mi~downstream~from~State~Highway~C-470,~0.2~mi~south~of~County~Line~Road~and~Holly~Street,~in~Highlands~Ranch.$ 

DRAINAGE AREA.--11.2 mi<sup>2</sup>.

PERIOD OF RECORD.--October 2003 to September 2004. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06710150

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,675 ft above NGVD of 1929, from topographic map. REMARKS.--Records poor.

## DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1.3 1.2 1.3 1.4 1.7	1.4 1.5 1.9 1.6 1.7	1.6 1.5 1.5 1.6 1.5	1.2 0.94 1.0 1.2 1.1	1.2 0.72 0.72 0.96 0.85	1.3 1.8 1.6 1.9 2.7	1.5 11 14 2.6 1.6	2.9 1.2 1.1 1.1 1.0	1.6 1.6 1.6 1.4 1.4	2.0 1.6 1.6 1.5 1.5	1.7 1.6 1.7 3.6 27	3.2 2.5 1.9 2.2 1.8
6 7 8 9 10	2.0 1.9 2.5 2.1 1.9	1.3 1.3 1.3 1.3	1.5 1.5 1.8 e1.8 1.8	1.2 1.1 0.94 1.0 1.1	1.0 1.2 0.88 0.88 0.89	0.87 0.99 1.2 1.1 0.70	1.4 2.4 2.0 5.0	1.00 0.98 0.95 0.95 0.97	1.4 1.1 1.2 1.7 1.2	1.5 1.4 1.3 11 2.6	11 5.7 4.1 2.6 6.4	1.2 1.1 1.4 1.5 1.2
11 12 13 14 15	2.0 1.8 1.7 1.3 1.4	1.2 1.3 1.1 1.6 1.7	1.6 1.5 1.4 1.5 1.6	1.2 1.2 1.2 1.0 1.1	0.79 e0.85 0.97 1.0 0.86	0.76 0.81 0.86 0.80 0.83	3.2 10 1.6 1.3 1.2	0.95 10 5.9 2.1 1.8	1.1 1.2 1.1 1.2 1.2	1.7 1.6 1.4 1.6 1.6	5.6 2.6 2.4 2.4 2.5	1.2 1.2 1.1 1.3 1.0
16 17 18 19 20	1.5 1.5 1.6 1.9 1.9	1.6 1.8 1.8 1.6 1.7	e1.5 1.4 1.4 1.4 1.3	1.2 1.1 1.1 1.4 1.8	0.83 1.2 1.4 3.9 4.8	0.81 0.93 0.95 1.1 0.99	1.2 1.1 1.1 1.1 1.1	1.4 1.3 1.2 1.2	5.8 3.0 8.3 3.3 1.8	2.3 18 3.2 1.9 1.5	2.2 2.1 45 43 15	1.1 1.0 0.93 1.0 1.1
21 22 23 24 25	2.1 1.9 1.8 2.2 2.2	1.6 1.6 1.6 e1.6 1.5	1.2 1.3 1.2 1.3 1.2	1.3 0.90 0.94 0.95 0.86	2.0 1.7 1.9 1.7 1.5	0.97 1.0 0.97 1.1 1.2	3.3 6.3 19 13 3.0	1.1 1.1 1.0 1.0	22 2.7 1.6 1.4 1.6	2.1 2.4 2.7 2.3 2.1	9.5 5.5 2.7 2.3 1.8	6.7 6.3 1.7 1.5 1.6
26 27 28 29 30 31	2.5 1.9 2.4 2.0 1.8 2.2	1.4 1.4 1.5 1.6 1.7	1.3 1.1 0.93 0.89 1.0 0.97	1.1 1.4 1.5 1.1 1.1 0.86	1.6 1.5 1.4 3.0	1.2 1.2 1.6 1.8 2.4 2.1	1.5 1.3 1.2 1.2 5.3	1.0 1.0 1.0 1.6 1.8 1.7	2.6 2.6 1.9 2.6 5.8	1.8 1.8 4.9 1.9 1.8 1.5	2.2 15 4.8 3.4 3.2 3.9	0.95 20 5.6 2.5 4.4
TOTAL MEAN MAX MIN AC-FT	56.9 1.84 2.5 1.2 113	45.5 1.52 1.9 1.1 90	43.09 1.39 1.8 0.89 85	35.09 1.13 1.8 0.86 70	42.20 1.46 4.8 0.72 84	38.54 1.24 2.7 0.70 76	129.5 4.32 19 1.1 257	52.50 1.69 10 0.95 104	87.0 2.90 22 1.1 173	86.1 2.78 18 1.3 171	242.5 7.82 45 1.6 481	80.18 2.67 20 0.93 159

SUMMARY STATISTICS

ANNUAL TOTAL
ANNUAL MEAN
HIGHEST DAILY MEAN
LOWEST DAILY MEAN
ANNUAL SEVEN-DAY MINIMUM
MAXIMUM PEAK FLOW
MAXIMUM PEAK STAGE
ANNUAL RUNOFF (AC-FT)
10 PERCENT EXCEEDS
90 PERCENT EXCEEDS

FOR 2004 WATER YEAR

939.10 2.57 45 0.70 0.80 178 5.81 1,860 4.2 1.5	Aug 18 Mar 10 Mar 10 Aug 18 Aug 18
0.97	

e Estimated.

## 06710247 SOUTH PLATTE RIVER BELOW UNION AVENUE, AT ENGLEWOOD, CO

 $LOCATION.--Lat\ 39^{\circ}37'57'', long\ 105^{\circ}00'52'', in\ SW^{1}_{4}NW^{1}_{4}\, sec. 9, T.5\ S., R.68\ W., Arapahoe\ County, Hydrologic\ Unit\ 10190002, on\ right\ bank\ 100\ ft\ downstream\ from\ Englewood\ Water\ Treatment\ Plant,\ 200\ ft\ downstream\ from\ Union\ Avenue\ bridge\ in\ Englewood,\ and\ 7.7\ mi\ downstream\ from\ Chatfield\ Dam.$ 

DRAINAGE AREA.--3,043 mi<sup>2</sup>.

PERIOD OF RECORD.--February 1996 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06710247

GAGE.--Water-stage recorder with satellite telemetry and concrete control. Elevation of gage is 5,290 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by Chatfield Reservoir (station 06709600) 7.7 mi upstream. Diversions for municipal use by City of Englewood 100 ft upstream from gage.

					R YEAR OCT		ET PER SECC TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	22	16	18	35	35	11	405	37	258	352	40
2	24	19	15	17	35	52	29	308	31	364	264	78
3	26	18	15	17	32	63	118	137	35	164	142	138
4	24	15	14	17	33	66	36	116	41	115	171	81
5	23	14	17	14	32	95	95	120	94	46	211	76
6	23	17	15	15	35	75	326	145	195	73	315	71
7	29	17	17	16	48	72	269	148	199	99	456	73
8	27	17	19	16	47	65	127	137	125	83	474	65
9	26	18	24	16	45	24	261	76	157	199	265	45
10	18	21	19	16	44	22	301	90	180	179	178	49
11	24	21	16	16	39	20	256	153	139	159	203	44
12	29	19	16	16	28	16	250	267	55	154	229	43
13	26	18	20	14	27	14	92	349	38	144	146	41
14	36	17	25	15	30	14	84	488	36	100	143	67
15	37	18	21	25	32	13	61	336	34	55	121	66
16	31	19	25	26	29	12	89	67	41	123	44	69
17	25	19	36	26	32	13	169	67	97	360	32	53
18	20	17	33	26	38	12	167	109	184	686	209	27
19	21	18	24	26	58	15	127	144	318	618	409	24
20	21	16	24	28	67	14	26	68	311	388	185	23
21	22	15	24	29	53	15	34	62	174	190	238	60
22	21	16	25	25	50	13	57	87	111	125	93	78
23	18	18	18	21	47	13	143	154	73	330	125	57
24	20	21	20	21	32	13	75	93	53	775	238	56
25	22	17	20	22	31	13	55	67	51	868	210	48
26 27 28 29 30 31	24 21 21 24 22 24	15 14 17 17 15	21 20 22 24 16 15	40 78 25 23 32 31	31 32 31 48	13 13 14 13 12	44 84 141 173 264	49 39 35 39 42 50	74 222 523 477 159	623 252 332 434 350 289	61 100 72 74 93 77	39 63 91 34 54
TOTAL MEAN MAX MIN AC-FT STATISTI	774 25.0 45 18 1,540	525 17.5 22 14 1,040 THLY MEA	636 20.5 36 14 1,260 N DATA FO	727 23.5 78 14 1,440 OR WATER Y	1,121 38.7 67 27 2,220 TEARS 1996 -	855 27.6 95 11 1,700	3,964 132 326 11 7,860 VATER YEAR	4,447 143 488 35 8,820	4,264 142 523 31 8,460	8,935 288 868 46 17,720	5,930 191 474 32 11,760	1,753 58.4 138 23 3,480
MEAN	47.8	40.1	33.3	35.8	44.3	64.2	163	327	347	263	214	69.4
MAX	111	83.5	76.4	73.6	81.7	112	403	932	1,222	550	485	114
(WY)	(1999)	(1998)	(1998)	(1998)	(2001)	(1998)	(1998)	(1998)	(1999)	(1999)	(1999)	(2003)
MIN	20.1	10.0	9.65	9.94	11.8	27.1	23.4	45.0	70.6	22.4	10.8	19.7
(WY)	(2002)	(2003)	(2003)	(2003)	(2003)	(1996)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)
SUMMAR	Y STATIST	ICS		FOR 2003 C	'ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 199	6 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE 50 PERCE		IEAN AN AN Y MINIMUN OW AGE (C-FT) OS	И	79,310 287 37	6 Apr 6.1 Jan 6.7 Jan	23	86 1 1,23 1 67,30 25	92.7 58 Ju 11 Ma 12 Ma 30 Au 13.43 Au 90	r 26	1,9 2,3 104,	3.3 Ay 5.3 Do 150 Ma 14.19 Ma	1999 2002 un 18, 1999 pr 24, 1996 ec 9, 2002 uy 28, 1999 uy 28, 1999

#### 06710385 BEAR CREEK ABOVE EVERGREEN, CO

LOCATION.--Lat 39°37′58″, long 105°20′10″, in SE $^{1}_{4}$ NE $^{1}_{4}$  sec.9, T.5 S., R.71 W., Jefferson County, Hydrologic Unit 10190002, on right bank 0.9 mi upstream from Evergreen Lake dam at Evergreen.

DRAINAGE AREA.--104 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1984 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site no=06710385

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage 7,080 ft above NGVD of 1929, from topographic map. Prior to May 1, 1986, at site 800 ft downstream at different datum. May 1, 1986 to Apr. 2, 2001, at site 600 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by small diversions for irrigation.

#### DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES DAY OCT NOV DEC JAN **FEB** MAR APR MAY JUN JUL AUG SEP 21 e19 e15 e14 e13 e12 14 48 86 95 94 92 37 35 2.1 e18 e15 e14 e14 e12 15 50 33 65 2 50 25 e12 18 35 60 20 e15 e14 e14 23 e12 57 58 84 34 34 e17 e15 e14 e13 e17 5 22 18 e15 e13 e12 e20 66 33 56 93 37 e13 e18 e17 e15 e15 e13 e13 e12 e13 e25 e24 54 52 84 77 34 32 6 7 22 21 e13 74 72 33 32 e14 70 31 8 2.1 18 e15 e14 e13 e13 30 34 50 73 48 70 30 20 e19 e15 e13 e35 62 e13 10 19 e19 e15 e12 e13 29 65 43 53 65 29 e14 11 19 e12 31 67 34 49 63 31 18 e15 e14 e14 45 28 19 e15 e15 e12 e14 32 65 31 e13 61 12 e19 e15 32 43 59 28 e13 35 52 26 14 18 e17 e15 e13 e12 e14 2.8 42 56 37 50 28 48 52 26 15 18 e17 e15 e13 e12 e14 20 e12 38 47 29 50 25 16 e18 e15 e13 e14 18 e15 e12 e14 41 48 38 119 49 24 e14 e14 24 23 18 18 e15 e15 e12 e14 43 45 44 99 56 37 e12 49 43 84 98 19 17 e14 e15 e14 e15 24 19 37 53 92 73 20 e14 e12 35 e15 e14 e16 21 22 18 e14 e14 e12 e18 35 35 53 51 38 91 63 30 32 e12 93 18 e14 e14 e14 e19 42 58 23 30 e12 34 43 e19 34 118 58 18 e14 e14 e14 18 e14 e14 e14 e12 e19 36 41 31 147 51 32 25 17 40 48 31 e14 e14 e14 e12 e20 42 36 124 39 41 45 32 26 e14 e12 e19 44 16 e14 e13 116 27 e12 43 52 30 e17 e14 e14 e14 e18 38 113 51 37 28 e14 e14 e14 e12 46 123 52 32 18 e16 29 e12 46 38 121 44 34 e14 e15 30 18 e15 e14 e14 e15 46 35 64 105 42 37 33 41 31 e17 e14 e13 ---14 ---100 ---TOTAL 592 487 425 359 458 990 1,599 1,173 2,536 1,997 917 MEAN 19.1 16.2 14.6 13.7 12.4 14.8 33.0 51.6 39.1 81.8 64.4 30.6 39 MAX 25 20 15 14 14 20 46 74 71 147 98 16 14 12 33 41 23 MIN 14 13 12 14 28 42 AC-FT 966 901 908 1,960 2,330 5,030 3,960 1,820 1,170 843 712 3,170 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2004, BY WATER YEAR (WY) MEAN 27.0 21.8 15.5 13.0 15.7 37.4 91.9 95.7 58.3 50.5 32.9 56.2 18.2 89.7 238 280 129 54.2 MAX 85.1 19.6 26.7 134 (1985) (WY) (1985)(1985)(1998)(1996)(1992)(1987)(1998)(1995)(1995)(1999)(1997)9 57 MIN 9 61 7 97 4 89 4 65 4 70 13 9 12.2 10.75 38 8 24 9 66 (2003)(2003) (2003)(2003) (2003)(1991)(2002)(1995)(2002)(2002)(WY) (2002)(2002)FOR 2003 CALENDAR YEAR SUMMARY STATISTICS FOR 2004 WATER YEAR WATER YEARS 1985 - 2004 ANNUAL TOTAL 13,187.2 11,987 ANNUAL MEAN 36.1 32.8 HIGHEST ANNUAL MEAN 70.5 1998 LOWEST ANNUAL MEAN 11.0 2002 Jun 18, 1995 Sep 8, 2002 HIGHEST DAILY MEAN LOWEST DAILY MEAN 421 2.6 163 Jun 1 147 Jul 24 e4.5 Jan 31 e12 Feb 10 e12 3.3 Jul 15, 2002 ANNUAL SEVEN-DAY MINIMUM e4.6 Feb 10 MAXIMUM PEAK FLOW 194 573 Jun 18, 1995 MAXIMUM PEAK STAGE 5.87 Jul 17 a5.39 Jun 18, 1995 26,160 23.780 ANNUAL RUNOFF (AC-FT) 28.580 92 10 PERCENT EXCEEDS 65 87

21

10

50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

21

4.7

e Estimated.

a Maximum gage height, 5.96 ft, Jul 13, 2001, present site and datum.

#### 06710500 BEAR CREEK AT MORRISON, CO

LOCATION.--Lat 39°39'11", long 105°11'43", in SE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.35, T.4 S., R.70 W., Jefferson County, Hydrologic Unit 10190002, on left bank at Morrison, 180 ft upstream from bridge on State Highway 8, and 0.2 mi upstream from Mount Vernon Creek.

DRAINAGE AREA,--164 mi<sup>2</sup>.

PERIOD OF RECORD.--September 1887 to September 1891, May 1895 to December 1901, February 1902 (gage heights only), October 1919 to current year. No winter records for water years 1888-90, 1896, 1898, 1900. Monthly discharge only for some periods, published in WSP 1310. Published as "near Morrison" 1900-1902, as "at Starbuck" 1919-28, and as "at Idledale" 1929-34. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site no=06710500

REVISED RECORDS.--WSP 976: 1942. WSP 1310: 1888, 1890-91, 1898, 1935(M). WSP 1730: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and concrete control. Datum of gage is 5,780.43 ft above NGVD of 1929. See WSP 1710 or 1730 for history of changes prior to Oct. 1, 1934. Oct. 1, 1934 to Oct. 10, 1961, water-stage recorder at site 80 ft downstream at present datum.

REMARKS.--Records good except for period Nov. 25 to Dec. 10, which is fair, and estimated daily discharges, which are poor. Small diversions for irrigation of about 1,000 acres upstream from station.

COOPERATION .-- Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

#### DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP 102 50 e14 e13 e14 16 16 66 23 72 33 47 e14 e13 e14 18 3 25 22 21 e14 e12 e14 33 67 36 74 110 44 4 26 22 10 e12 e12 e14 23 72 35 69 100 41 27 5 15 24 17 e12 e12 e14 79 34 66 112 45 17 32 85 109 41 23 20 e12 e12 e16 32 23 22 20 e12 e12 34 82 32 61 94 40 e16 20 23 56 54 37 35 8 22 22 22 19 e13 e13 47 80 72 31 62 89 20 82 62 e13 16 e16 10 22 23 12 25 52 72 53 60 75 34 e16 e13 22 2.1 21 21 72 70 35 11 e12 e16 e13 44 40 56 $\overline{22}$ 19 50 74 12 e12 e16 e12 34 50 72 34 e12 24 70 20 51 48 66 30 13 e12 33 22 e16 21 21 53 e13 63 45 63 33 14 e16 e13 19 19 21 52 62 29 50 60 27 15 e13 e16 e13 20 52 73 27 16 21 17 e13 e15 e13 56 34 56 17 21 17 e15 20 54 55 50 133 54 26 e13 e13 21 55 53 25 18 19 e13 e15 118 64 e16 19 18 21 47 54 123 25 18 e14 e14 94 25 20 18 21 e14 e13 e15 24 48 56 47 103 97 21 23 57 34 20 20 e14 e13 e14 46 48 104 88 18 25 48 54 78 43 19 e12 e13 e14 56 101 25 25 25 25 23 19 e13 e14 50 48 44 137 78 38 24 25 e14 68 64 35 36 18 e12 51 60 45 37 169 40 19 16 e14 e14 e14 46 147 26 18 20 e14 e13 e14 24 57 46 55 138 58 36 20 20 35 35 2.7 18 e14 e13 e15 23 21 61 41 67 135 68 28 18 e12 e13 e15 64 40 96 140 72 29 e12 42 60 40 21 24 e13 e14 16 65 76 148 30 26 e13 e13 19 68 42 75 123 54 39 19 17 35 119 52 31 e14 e13 TOTAL 643 573.9 433 389 627 1,420 1,858 1,390 2,917 2,462 1,072 464 20.7 19.1 15.0 14.0 13.4 20.2 47.3 59.9 46.3 94.1 79.4 35.7 MEAN 26 23 25 68 85 169 123 50 MAX 26 16 16 96 6.9 MIN 18 12 12 12 14 16 35 29 45 52 2.5 AC-FT 1.280 1,140 920 859 772 1,240 2.820 3,690 2,760 5,790 4.880 2,130 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1900 - 2004, BY WATER YEAR (WY) MEAN 30.7 23.4 16.9 13.8 143 20.2 54.4 145 134 71.3 63.5 43.0 MAX (WY) 115 86.7 57.0 34.0 36.0 48.3 296 525 551 249 307 371 (1985)(1924)(1924)(1924)(1924)(1960)(1942)(1973)(1949)(1949)(1923)(1938)MIN 9.59 6.34 5.194.004.003.033.96 (1935)(1957)(2003)(1950)(1933)(1933)(1982)(1963)(2002)(2002)(2002)(1978)(WY) FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1900 - 2004 SUMMARY STATISTICS ANNUAL TOTAL 17,709.1 14.248.9 ANNUAL MEAN HIGHEST ANNUAL MEAN 48.5 38.9 52.1 125 1942 LOWEST ANNUAL MEAN 12.0 2002 HIGHEST DAILY MEAN 276 169 7, 1969 Apr 15 Jul 24 1,410 May Jul 20, 2002 LOWEST DAILY MEAN e4.3 Jan 2 6.9 Nov 23 0.62 ANNUAL SEVEN-DAY MINIMUM e12 207 e6.1 Jan 1 Feb 1.0 Jul 28, 2002 MAXIMUM PEAK FLOW Jul 24, 1896 e8.600 Aug a6.96 MAXIMUM PEAK STAGE Aug ANNUAL RUNOFF (AC-FT) 35,130 28,260 37,760 10 PERCENT EXCEEDS 133 77 116 50 PERCENT EXCEEDS 23 25 25 13 11 90 PERCENT EXCEEDS 7.9

e Estimated.

a Maximum gage height, 6.98 ft, Jul 17.

## 06710605 BEAR CREEK ABOVE BEAR CREEK LAKE NEAR MORRISON, CO

 $LOCATION.--Lat\ 39^{\circ}39'08", long\ 105^{\circ}10'23", in\ NW^{1}/_{4}NE^{1}/_{4}\ sec.1, T.5\ S.\ R.70\ W., Jefferson\ County, Hydrologic\ Unit\ 10190002, on\ right\ bank, 0.9\ mi\ downstream\ from\ Mt.\ Vernon\ Creek.$ 

DRAINAGE AREA.--176 mi<sup>2</sup>.

 $PERIOD\ OF\ RECORD. -- May\ 1986\ to\ current\ year.\ For\ a\ complete\ listing\ of\ historical\ data\ available\ for\ this\ site,\ see\ http://waterdata.usgs.gov/co/nwis/inventory/\\ ?site\_no=06710605$ 

GAGE.—Water-stage recorder with satellite telemetry. Elevation of gage 5,645 ft above NGVD of 1929, from topographic map. Prior to Apr. 21, 1989, at datum 3.37 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by diversions to Harriman Canal, and Ward Canal, 0.7 mi upstream from gage.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	9.9 12 15 15 13	6.1 2.5 1.6 1.2 1.2	3.3 2.9 2.8 2.3 1.9	13 13 e12 e12 e12	e13 e12 e12 e12 e12	e12 e12 e12 e12 e12	2.6 6.0 22 12 13	35 19 41 58 63	7.7 5.9 8.0 4.8 3.1	91 41 42 50 47	87 84 81 70 81	e38 e33 e30 25 29	
6 7 8 9 10	12 12 10 10 9.4	1.2 1.2 1.2 1.3 1.7	2.4 2.1 2.0 1.6 1.3	e12 e11 e11 e11 e12	e12 e12 e12 e11 e11	e11 e11 e10 e9.6 e9.0	14 16 30 47 40	71 64 59 50 52	2.3 3.4 4.4 29 17	45 41 38 36 41	83 68 63 59 53	25 24 21 20 19	
11 12 13 14 15	11 11 9.3 8.8 7.8	2.0 2.4 2.1 2.1 2.1	1.7 1.6 2.7 2.3 1.9	e12 13 14 14 14	e11 e10 12 12 11	10 10 e9.1 11 10	33 42 43 44 44	54 56 52 26 9.0	12 13 13 5.8 4.5	39 30 25 23 28	50 52 47 44 41	19 18 23 26 16	
16 17 18 19 20	8.7 9.8 8.2 7.6 6.3	2.1 2.1 2.6 3.1 2.8	1.3 2.3 3.6 6.1 e9.1	13 13 13 e12 e12	9.8 11 e11 e12 e13	12 13 14 12 14	43 44 45 36 38	27 38 37 37 37	7.8 16 28 34 23	50 104 89 68 76	38 36 48 112 60	12 11 11 11 11	
21 22 23 24 25	8.2 6.7 5.6 4.7 9.1	2.6 2.5 1.8 2.1 2.4	12 e10 e11 e11 e11	13 12 e12 14 e12	e12 e12 e12 e12 e12	13 9.2 4.4 3.8 4.1	38 40 23 7.2 8.6	38 35 30 27 27	8.0 6.5 11 16	74 72 104 129 65	8.0 39 66 56 53	21 31 26 24 25	
26 27 28 29 30 31	10 12 12 13 11	3.0 2.4 1.8 1.8 3.7	e11 e10 12 12 e11	e12 e12 e12 e12 e12 e12	e12 e12 e12 e12	3.4 3.0 2.1 3.6 8.8 5.5	8.5 8.3 44 65 70	27 23 16 13 14 9.7	29 44 50 16 45	18 67 107 118 100 91	48 61 68 55 47 42	25 23 26 31 32	
TOTAL MEAN MAX MIN AC-FT	311.1 10.0 15 4.7 617	66.7 2.22 6.1 1.2 132	178.2 5.75 12 1.3 353	384 12.4 14 11 762	339.8 11.7 13 9.8 674	286.6 9.25 14 2.1 568	927.2 30.9 70 2.6 1,840	1,144.7 36.9 71 9.0 2,270	482.2 16.1 50 2.3 956	1,949 62.9 129 18 3,870	1,800.0 58.1 112 8.0 3,570	686 22.9 38 11 1,360	
							VATER YEAR		00.4	12.5	25.5	10.5	
MEAN MAX (WY) MIN (WY)	15.5 38.8 (1998) 4.14 (2003)	14.9 44.9 (1998) 0.38 (1990)	16.0 33.8 (1998) 0.17 (2003)	15.1 32.3 (1998) 0.17 (2003)	14.4 25.1 (1998) 0.18 (2003)	16.7 47.0 (1998) 1.26 (1995)	47.9 191 (1998) 2.83 (1989)	115 382 (1998) 2.40 (2002)	99.4 512 (1995) 1.51 (2002)	42.5 216 (1995) 1.21 (2002)	35.5 127 (1999) 2.27 (2002)	19.5 58.7 (1997) 1.76 (2002)	
SUMMAF	RY STATIST	ICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 198	6 - 2004	
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU	. MEAN TANNUAL M TANNUAL M TDAILY ME DAILY ME JEVEN-DA JM PEAK FL JM PEAK ST	IEAN AN AN Y MINIMUN OW AGE	Л	200	5.7 6 Apr 0.11 Jan 0.14 Jan	3	8,55 2 12 15 16,97	23.4 29 Jul 1.2 Nov 1.3 Nov 58 Jul 5.00 Jul			0.07 Se 0.11 De 841 Ju 6.45 Ju	1995 2002 In 18, 1995 ep 3, 2002 ec 17, 2002 In 9, 1995 In 9, 1995	
ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			15,020 61 8.3 0.19			57 12 2.5			81 17 2.4				

e Estimated.

## 06710992 TURKEY CREEK NEAR INDIAN HILLS, CO

 $LOCATION.--Lat~39^{\circ}37'03", long~105^{\circ}13'24", in~SE^{1}_{4}NE^{1}_{4}~sec.16, T.5~S., R.70~W.~, Jefferson~County, Hydrologic~Unit~10190002, on~left~bank~0.5~mi~downstream~from~Parmalee~Gulch~and~1.0~mi~east~of~Indian~Hills.$ 

DRAINAGE AREA.--45.9 mi<sup>2</sup>.

PERIOD OF RECORD.--April 2001 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=06710992

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,620 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair, except for estimated daily discharges, which are poor.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	0.13 0.13 0.18 0.26 0.27	e0.38 e0.38 e0.38 e0.38 e0.38	e0.37 e0.37 e0.37 e0.37 e0.37	e0.44 e0.44 e0.44 e0.44	e0.53 e0.53 e0.61 e0.61 e0.61	e4.1 e4.0 e4.0 e4.0 e3.8	2.6 3.0 6.9 6.2 8.6	41 42 37 35 32	4.2 3.9 4.2 3.7 3.3	15 13 11 9.4 8.4	3.6 3.3 3.0 2.7 3.7	2.5 2.2 2.0 1.9 2.2		
6 7 8 9 10	0.22 0.21 0.21 0.21 0.22	e0.38 e0.38 e0.38 e0.38 e0.38	e0.37 e0.37 e0.37 e0.37 e0.36	e0.46 e0.49 e0.49 e0.47 e0.42	e0.79 e0.89 e0.97 e1.0 e1.4	e3.6 e4.5 e5.5 e5.8 e5.0	9.0 9.0 20 27 21	29 27 25 23 22	2.8 e2.4 e5.0 e13 e5.3	7.3 6.3 5.7 5.4 6.5	4.2 3.2 3.3 2.5 2.2	1.9 1.6 1.4 1.3 1.2		
11 12 13 14 15	0.23 0.27 0.30 0.34 0.39	e0.38 e0.38 e0.38 e0.38 e0.38	e0.34 e0.34 e0.34 e0.34	e0.34 e0.33 e0.36 e0.41 e0.43	e1.4 e1.4 e1.2 e1.0 e0.84	e4.7 e4.3 e4.6 e4.7 e4.3	19 24 24 24 21	20 20 26 22 20	2.7 2.3 2.1 1.7 e2.2	5.6 4.2 3.4 2.9 3.0	1.9 2.0 1.7 1.4 1.2	1.2 1.0 0.97 0.94 0.90		
16 17 18 19 20	0.42 0.37 e0.39 e0.36 e0.36	e0.38 e0.39 e0.40 e0.40 e0.40	e0.34 e0.34 e0.34 e0.34	e0.43 e0.43 e0.43 e0.43	e0.71 e0.86 e1.1 e1.2 e2.3	e4.4 e4.6 e4.9 e4.8 e4.8	19 18 17 15	16 14 13 12 10	e4.5 e5.5 e11 e9.0 e4.4	8.4 15 7.1 5.0 6.6	0.99 0.87 2.0 8.7 5.4	0.79 0.73 0.68 0.69 0.74		
21 22 23 24 25	e0.36 e0.36 e0.36 e0.36	e0.40 e0.39 e0.39 e0.39 e0.39	e0.35 e0.40 e0.45 e0.45 e0.45	e0.43 e0.43 e0.43 e0.43	e4.4 e4.4 e4.2 e4.1	4.8 4.8 4.6 4.2 4.1	13 15 17 23 34	10 8.5 7.4 6.4 6.5	e9.5 e11 5.6 4.0 3.1	5.9 5.5 8.6 13 9.1	4.6 8.4 5.4 3.4 2.9	1.2 2.1 2.2 1.8 1.6		
26 27 28 29 30 31	e0.36 e0.36 e0.39 e0.41 e0.41 e0.39	e0.39 e0.39 e0.39 e0.38 e0.38	e0.45 e0.45 e0.45 e0.45 e0.44 e0.44	e0.46 e0.50 e0.53 e0.53 e0.53 e0.53	e4.1 e4.1 e4.2 e4.2	3.8 3.6 3.0 2.6 2.9 2.8	35 37 35 33 36	7.4 6.8 6.7 6.2 5.5 4.7	8.4 35 40 24 19	7.0 6.3 7.5 5.9 4.5 4.3	2.5 5.0 8.5 4.5 3.3 2.7	1.5 1.4 1.4 1.7 1.6		
TOTAL MEAN MAX MIN AC-FT	9.57 0.31 0.42 0.13	11.56 0.39 0.40 0.38 23	11.87 0.38 0.45 0.34 24	13.78 0.44 0.53 0.33 27	57.75 1.99 4.4 0.53 115	131.6 4.25 5.8 2.6 261	586.3 19.5 37 2.6 1,160	562.1 18.1 42 4.7 1,110	252.8 8.43 40 1.7 501	226.8 7.32 15 2.9 450	109.06 3.52 8.7 0.87 216	43.34 1.44 2.5 0.68 86		
						,	VATER YEAR	` ′	5.21	2.24	1.26	0.77		
MEAN MAX (WY) MIN (WY)	0.67 1.29 (2003) 0.31 (2004)	0.69 0.86 (2003) 0.39 (2004)	0.37 0.54 (2002) 0.19 (2003)	0.36 0.44 (2004) 0.30 (2003)	1.02 1.99 (2004) 0.42 (2003)	5.08 9.61 (2003) 1.38 (2002)	28.7 64.8 (2003) 1.90 (2002)	18.4 35.9 (2003) 1.65 (2002)	5.21 8.97 (2003) 0.43 (2002)	2.34 7.32 (2004) 0.00 (2002)	1.36 3.52 (2004) 0.00 (2002)	0.77 1.44 (2004) 0.36 (2003)		
SUMMAF	RY STATIST	TICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 20	01 - 2004		
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU	, MEAN 'ANNUAL N ANNUAL M 'DAILY ME DAILY ME, SEVEN-DA IM PEAK FL IM PEAK ST	MEAN AN AN AY MINIMU! OW AGE	М	14	0.2 2 Apr 0.05 Sep 0.07 Sep	27	4	0.20 Oc 38 Jur 4.75 Jur	y 2 t 1 t 1 t 27 1 27	2	a0.00 J 0.00 J 264 A 5.38 A	2003 2002 Apr 20, 2003 Apr 20, 2002 Yun 26, 2002 Apr 20, 2003 Apr 20, 2003		
ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				7,400 40 0.42 0.21				00 7 2.2 0.36		4,0	000 16 0.79 0.11			

e Estimated. a No flow on many days in 2002.

#### 06711500 BEAR CREEK AT MOUTH, AT SHERIDAN, CO

LOCATION.--Lat 39°39′08", long 105°01′57", in  $NW^1/_4NW^1/_4$  sec.5, T.5 S., R.68 W., Arapahoe County, Hydrologic Unit 10190002, on left bank just downstream from bridge on road to Fort Logan Mental Health Center, at Highway Department maintenance building at northwest city limits of Sheridan, 1.3 mi upstream from mouth, and 2.1 mi west of city hall in Englewood.

DRAINAGE AREA.--260 mi<sup>2</sup>.

PERIOD OF RECORD.--April to November 1914, March 1927 to current year. Monthly discharge only prior to October 1933, published in WSP 1310. Published as "at Sheridan Junction" 1934-41. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06711500

REVISED RECORDS.--WSP 1730: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,295 ft above NGVD of 1929, from topographic map. See WSP 1710 or 1730 for history of changes prior to Oct. 9, 1953. Oct. 9, 1953 to Aug. 6, 1969, water-stage recorder at present site at datum 1.0 ft higher.

REMARKS.—Records good except for estimated daily discharges, which are fair. Flow regulated by Bear Creek Lake since July 1979. Storage and diversions upstream from station for irrigation of about 12,000 acres.

DISCHARGE CURIC EEET DED SECOND

COOPERATION .-- Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

			R YEAR OCT	OBER 2003	3 TO SEPTEM					
NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
16 12 11 9.0 7.5	9.9 10 9.6 9.4 8.9	16 17 19 19 e19	19 17 16 18 19	23 22 21 22 33	4.6 11 41 26 16	102 77 72 105 112	17 13 11 11 10	129 111 75 88 85	89 85 85 79 74	41 37 35 34 37
6.8 6.3 6.3 6.2 6.6	8.8 8.9 9.5 e10 7.6	e18 e19 19 20 20	19 18 18 18 17	27 23 24 25 27	17 32 51 63 91	112 105 99 92 86	8.8 6.4 4.5 30 35	82 77 73 105 90	96 83 74 67 63	34 31 28 26 26
6.7 7.2 7.3 8.1 7.9	e7.1 e6.7 e6.5 7.0 7.2	19 19 18 18	19 e20 e17 e19 19	20 15 14 15 14	65 70 65 61 59	86 114 121 92 47	23 19 19 15 11	71 56 43 38 35	55 54 50 46 43	24 23 21 27 24
8.0 8.2 8.0 8.1 8.8	e6.9 6.6 6.7 7.0 9.9	18 18 17 16 18	20 20 21 28 28	14 12 14 15 16	56 54 54 51 47	38 60 61 61 59	12 19 53 83 71	45 121 119 91 86	39 35 103 207 111	19 16 14 14 14
9.2 9.6 e9.9 e9.8 9.5	13 15 15 17 19	18 16 16 17 18	24 23 22 22 21	17 16 13 8.5 5.4	49 71 108 49 37	60 56 51 43 42	72 45 26 20 23	92 102 126 164 139	44 28 59 59 55	37 46 40 36 33
9.0 8.8 8.8 9.4 9.2	19 18 e15 e14 e14 16	19 e19 18 18 18	22 23 23 27 	4.8 4.1 3.6 3.3 3.4 5.8	38 40 50 91 115	40 35 31 24 22 19	33 227 195 79 78	64 50 102 116 104 94	50 83 82 67 54 46	34 32 49 41 44
259.2 8.64 16 6.2 514	339.2 10.9 19 6.5 673	560 18.1 20 16 1,110	597 20.6 28 16 1,180	480.9 15.5 33 3.3 954	1,582.6 52.8 115 4.6 3,140	2,124 68.5 121 19 4,210	1,269.7 42.3 227 4.5 2,520	2,773 89.5 164 35 5,500	2,165 69.8 207 28 4,290	917 30.6 49 14 1,820
23.0 99.8 (1985) 3.53 (1955)	21.4 61.3 (1985) 3.89 (2003)	19.6 46.3 (1970) 3.85 (1945)	19.2 43.5 (1942) 3.92 (2003)	22.1 94.4 (1960) 5.35 (1935)	54.8 394 (1942) 3.33 (1935)	151 859 (1973) 1.16 (1963)	102 630 (1949) 1.67 (1966)	38.0 238 (1983) 1.77 (1963)	39.3 255 (1984) 1.52 (2002)	25.0 256 (1938) 1.82 (1956)
STICS		FOR 2003 C	'ALENDAR '	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 192	7 - 2004
FLOW STAGE (AC-FT) EDS EDS	М	308 308 26,530 117 13	5.6 3.1 Mar 3.2 Mar	10	e1,33 26,73	27 Jui 3.3 Ma 4.2 Ma 30 Jui 5.73 Jui 30 39	r 29 r 26 n 27	4,0 a8,	6.53 020 Ma 0.00 Ju 0.28 Ju 150 Ma 10.50 Ma 850 98 17	1983 1954 y 7, 1969 il 13, 1954 il 29, 2002 y 7, 1969 y 7, 1969
	16 12 11 9.0 7.5 6.8 6.3 6.3 6.2 6.6 6.7 7.2 7.3 8.1 7.9 8.0 8.2 8.0 8.1 8.8 9.2 9.6 e9,9 e9.8 9.5 9.0 8.8 8.8 9.4 9.2 259.2 8.64 16 6.2 514 DNTHLY MEA 23.0 99.8 (1985) 3.53 (1955) STICS  MEAN MEAN MEAN MEAN EAN DAY MINIMUMETICAL STAGE (AC-FT) EDS	16 9.9 12 10 11 9.6 9.0 9.4 7.5 8.9 6.8 8.8 6.3 8.9 6.3 9.5 6.2 e10 6.6 7.6 6.7 e7.1 7.2 e6.7 7.3 e6.5 8.1 7.0 7.9 7.2 8.0 e6.9 8.2 6.6 8.0 6.7 8.1 7.0 8.8 9.9 9.2 13 9.6 15 e9.9 15 e9.8 17 9.5 19 9.0 19 8.8 18 8.8 e15 9.4 e14 9.2 e14 16 259.2 339.2 8.64 10.9 16 19 6.2 6.5 514 673  DNTHLY MEAN DATA FOR 23.0 21.4 99.8 61.3 (1985) (1985) 3.53 3.89 (1955) (2003)  STICS	NOV DEC JAN  16 9.9 16 12 10 17 11 9.6 19 9.0 9.4 19 7.5 8.9 e19 6.8 8.8 e18 6.3 8.9 e19 6.3 9.5 19 6.2 e10 20 6.6 7.6 20 6.7 e7.1 19 7.2 e6.7 19 7.3 e6.5 18 8.1 7.0 18 7.9 7.2 18 8.0 e6.9 18 8.1 7.0 16 8.8 9.9 18 8.2 6.6 18 8.0 6.7 17 8.1 7.0 16 8.8 9.9 18 9.2 13 18 9.6 15 16 e9.9 15 16 e9.8 17 9.5 19 18 9.0 19 19 8.8 18 e19 8.8 e15 18 9.4 e14 18 9.2 e14 18 9.3 e65 16 514 673 1,110  ONTHLY MEAN DATA FOR WATER Y  23.0 21.4 19.6 6.2 6.5 16 514 673 1,110  ONTHLY MEAN DATA FOR WATER Y  23.0 21.4 19.6 99.8 61.3 46.3 (1985) (1985) (1970) 3.53 3.89 3.85 (1955) (2003) (1945)  STICS FOR 2003 C  MEAN MEAN MEAN EAN EAN STAGE (AC-FT) 26,530 EDS EDS EDS	NOV DEC JAN FEB  16 9.9 16 19 16 19 11 19 19 16 19.0 9.4 19 18 7.5 8.9 e19 19 18 6.3 8.9 e19 18 6.3 9.5 19 18 6.2 e10 20 18 6.6 7.6 20 17 6.7 e7.1 19 19 7.2 e6.7 19 e20 7.3 e6.5 18 e17 8.1 7.0 18 e19 7.9 7.2 18 19 8.0 e6.9 18 20 8.2 6.6 61 8.2 0 8.0 6.7 17 21 8.1 7.0 16 28 8.8 9.9 18 28 9.9 18 28 9.9 18 28 9.9 18 28 9.9 18 28 9.9 18 28 9.9 18 28 9.9 18 28 9.9 18 28 9.9 18 28 9.9 15 16 22 e9.8 17 17 17 22 e9.8 17 17 22 e9.8 17 17 17 22 e9.8 18 28 e15 18 23 e9.4 e14 18 16 18 18 18 23 18 18 18 19 23 19 24 19 25 26 26 26 26 26 26 26 26 26 26 26 26 26	NOV DEC JAN FEB MAR  16 9.9 16 19 23 12 10 17 17 22 11 9.0 9.4 19 18 22 7.5 8.9 e19 19 33 6.8 8.8 e18 19 27 6.3 8.9 e19 18 23 6.3 9.5 19 18 24 6.2 e10 20 18 25 6.6 7.6 20 17 27 6.7 e7.1 19 19 20 7.2 e6.7 19 e20 15 7.3 e6.5 18 e17 14 8.1 7.0 18 e19 15 7.9 7.2 18 19 14 8.0 e6.9 18 20 14 8.1 7.0 18 e19 15 7.9 7.2 18 19 14 8.0 e6.9 18 20 14 8.1 7.0 16 28 15 8.8 9.9 18 28 16 9.2 13 18 24 17 9.6 15 16 23 16 9.9 15 16 22 13 e9.8 17 17 22 8.5 9.5 19 18 21 9.6 15 16 23 16 e9.9 15 16 22 13 e9.8 17 17 22 8.5 9.5 19 18 21 5.4 9.0 19 19 22 4.8 8.8 18 e19 23 4.1 e9.9 15 16 23 4.1 e9.8 17 17 22 8.5 9.5 19 18 21 5.4 9.0 19 19 22 4.8 8.8 18 e19 23 4.1 e9.8 17 17 22 8.5 9.5 19 18 21 5.4 9.0 19 19 22 4.8 8.8 18 e19 23 4.1 e9.8 17 17 22 8.5 9.5 19 18 21 5.4 9.0 19 19 22 4.8 8.8 18 e19 23 4.1 e9.8 17 17 22 8.5 9.5 19 18 21 5.4 9.0 19 19 22 4.8 8.8 18 e19 23 4.1 e9.8 17 17 22 8.5 9.5 19 18 21 5.4 9.0 19 19 22 4.8 8.8 18 e19 23 4.1 e9.8 17 17 22 8.5 9.5 19 18 21 5.4 9.0 19 19 22 4.8 8.8 18 e19 23 4.1 e9.8 17 17 22 8.5 9.5 19 18 21 5.4 9.0 19 19 22 4.8 8.8 18 e19 23 4.1 e9.8 17 17 22 8.5 9.5 19 18 21 5.4 9.0 19 19 22 4.8 8.8 18 e19 23 4.1 e9.8 17 17 22 8.5 9.5 19 18 21 5.4 9.0 19 19 22 5.4 9.0 19 19 22 5.5 9.5 19 18 21 5.4 9.0 19 19 22 5.5 9.5 19 18 21 5.4 9.1 10 1.1 180 954  DNTHLY MEAN DATA FOR WATER YEARS 1927 - 2004, BY WAY STAGE (AC-FT) (1985) (1985) (1985) (1995) (1995) (1942) (1960) 3.353 3.89 3.85 3.92 5.55 (1955) (2003) (1945) (2003) (1935)  STICS FOR 2003 CALENDAR YEAR 13,374.6 26.5 300 EDS 117 EDS 113	NOV DEC JAN FEB MAR APR  16 9.9 16 19 23 4.6 12 10 17 17 17 22 11 11 9.6 19 16 21 41 19.0 9.4 19 18 22 26 7.5 8.9 e19 19 33 16 6.8 8.8 e18 19 27 17 6.3 8.9 e19 18 23 32 6.3 9.5 19 18 24 51 6.6.2 e10 20 18 25 63 6.6. 7.6 20 17 27 91 6.7 e7.1 19 19 20 65 7.2 e6.7 19 e20 15 70 7.3 e6.5 18 e17 14 65 8.1 7.0 18 e19 15 61 7.9 7.2 18 19 14 59 8.0 e6.9 18 20 14 59 8.1 7.0 18 e19 15 61 7.9 7.2 18 19 14 59 8.0 e6.9 18 20 14 59 8.1 7.0 16 28 15 51 8.1 7.0 16 28 15 51 8.8 9.9 18 28 16 47 9.6 15 16 23 16 71 8.8 17 10 16 28 15 51 8.8 9.9 18 28 16 47 9.6 15 16 23 16 71 9.9 17 27 9.1 14 54 8.8 9.9 18 28 16 47 9.6 15 16 23 16 71 9.9 17 27 9.1 14 54 8.1 7.0 16 28 15 51 8.8 19 20 14 54 8.1 7.0 16 28 15 51 8.8 19 20 12 54 8.1 7.0 16 28 15 51 8.8 17 10 16 28 15 51 8.8 17 10 16 28 15 51 8.8 17 10 16 28 15 51 8.8 17 17 17 22 8.5 49 9.6 15 16 23 16 71 9.9 15 16 23 16 71 9.9 15 16 23 16 71 9.9 19 18 21 5.4 37 9.0 19 19 22 4.8 38 8.8 18 19 23 4.1 40 8.8 8 15 18 27 3.3 91 9.2 e14 18 3.4 115 16 18 5.8 259.2 33.92 560 597 480.9 1,582.6 514 673 1,110 1,180 954 3,140  DNTHLY MEAN DATA FOR WATER YEARS 1927 - 2004, BY WATER YEAR 1928 1935 1935 1935 1935 1935 1935 1935 1935	NOV DEC JAN FEB MAR APR MAY  16 9.9 16 19 23 4.6 102  12 10 17 17 17 22 11 77  9.0 9.4 19 18 22 26 105  7.5 8.9 e19 19 33 16 112  6.8 8.8 e18 19 27 17 112  6.3 8.9 e19 18 23 32 105  6.6 7 6.7 1 19 18 25 63 92  6.6 7 6.7 1 19 19 20 65 86  7.2 e6.7 19 e20 15 70 114  8.1 7.0 18 e19 15 61 92  7.9 7.2 e8.6 18 19 15 61 92  7.9 7.2 18 19 14 56 18  8.1 7.0 18 e19 15 61 92  8.0 e6.9 18 20 14 56 38  8.2 6.6 18 20 14 56 48  8.2 6.6 18 20 14 56 48  8.3 8.9 19 14 59 47  8.0 e6.9 18 20 14 56 38  8.1 7.0 16 28 15 51 61  8.1 7.0 16 28 15 51 61  8.1 7.0 16 28 15 51 61  8.2 6.6 17 77 79 18  8.0 e6.9 18 20 14 56 38  8.2 6.6 18 20 14 56 38  8.2 6.6 17 7 7 17 11 10 14 10 10 10 10 10 10 10 10 10 10 10 10 10	NOV   DEC   JAN   FEB   MAR   APR   MAY   JUN	NOV   DEC   JAN   FEB   MAR   APR   MAY   JUN   JUL	NOV DEC JAN FEB MAR APR MAY JUN JUL AUG  166 9.9 16 19 23 4.6 102 17 13 111 85  110 9.6 19 16 19 23 4.6 102 17 13 111 85  111 9.6 19 18 21 41 72 11 75 85  9.0 9.4 19 18 22 26 101 11 85 74  6.8 8.8 18 18 19 27 17 112 8.8 82 96  6.3 8.9 e19 18 23 33 16 112 10 85 74  6.6 3 8.9 e19 18 23 32 105 6.4 77 33 74  6.6 2 e16 30 18 24 51 51 50 6.4 77 38 74  6.6 2 e16 30 18 24 51 51 50 6.4 77 38 74  6.6 2 e16 30 18 24 51 51 51 51 51 51 51 51 51 51 51 51 51

a Present datum, from floodmarks, from rating curve extended above 3,400 ft<sup>3</sup>/s.

## 06711565 SOUTH PLATTE RIVER AT ENGLEWOOD, CO

 $LOCATION.--Lat~39°39'54", long~105°00'13", in~NW^{1}_{4}NE^{1}_{4}~sec. 33, T.4~S., R.68~W., Arapahoe~County, Hydrologic~Unit~10190002, on~right~bank, 0.3~mi~downstream~from~Dartmouth~Ave.~bridge~at~Englewood,~and~1.4~mi~downstream~from~Bear~Creek.$ 

DRAINAGE AREA.--3,387 mi<sup>2</sup>.

PERIOD OF RECORD.--February 1983 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=06711565

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,250 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good, except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage and flood control reservoirs, power developments, diversions for irrigation and municipal use, and return flow from irrigated areas. Flow regulated by Chatfield Dam since May 29, 1975 (station 06709600), and Bear Creek Dam since July 1979.

UG SEP 922 95 951 119 920 184
351 119
241 133 284 132
143 118 127 117 145 106 139 79 187 81
115 74 1293 71 1200 66 195 97 176 95
97 93 76 76 160 49 181 43 136 43
296 118 37 154 77 104 284 97 273 99
22 81 231 114 70 235 47 89 58 114 36
3,076 191 103 181 235 76 43 190 6,100
884 147 674 724 984) (1984) 22.8 36.7 002) (2002)
RS 1983 - 2004
1984 2002 Jun 28, 1995 Aug 15, 2002
Aug 13, 2002 Jun 4, 1995 Jun 4, 1995
22 45 5 2 2 3 2 2 1 1 4 5 4 2 1 1 2 2 1 2 1 1 1 1 1 1 2 2 5 1 2

e Estimated.

Also occurred Aug 17-19, 2002.

a Also occurred Aug 17-19, 2002.
 b From rating curve extended above 3,800 ft<sup>3</sup>/s.

#### 06712000 CHERRY CREEK NEAR FRANKTOWN, CO

LOCATION.--Lat 39°21'21", long 104°45'46", in NE<sup>1</sup>/<sub>4</sub> sec.15, T.8 S., R.66 W., Douglas County, Hydrologic Unit 10190003, on right bank 1.3 mi downstream from Castlewood Dam site, 1.5 mi upstream from Russellville Gulch, and 2.5 mi south of Franktown.

DRAINAGE AREA.--169 mi<sup>2</sup>.

PERIOD OF RECORD.--November 1939 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=06712000

REVISED RECORDS.--WSP 1730: Drainage area. WDR CO-87-1: 1983-85 (P).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,150 ft above NGVD of 1929, from topographic map. See WSP 1730 for history of changes prior to Oct. 1, 1953.

REMARKS.--Records fair except for estimated discharges, which are poor. Many small diversions upstream from station for irrigation of about 800 acres.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 3, 1933, caused by Castlewood Dam failure, exceeded all other observed floods at this location.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1.7 1.7 1.7 1.8 1.8	2.2 2.2 2.4 2.4 2.3	2.8 3.1 e3.0 e3.0 e3.0	2.8 2.9 3.1 e3.0 e3.0	4.9 e5.0 e5.0 5.1 5.0	8.3 7.8 7.8 8.2 9.0	2.8 2.6 2.8 2.4 4.7	8.2 7.7 7.2 6.7 6.0	1.7 1.9 2.1 2.3 2.3	e1.5 e5.9 e3.4 e1.7 e1.3	2.9 2.5 2.2 273 231	2.7 2.7 2.6 4.9 3.1
6 7 8 9 10	1.7 1.7 1.8 1.7	2.3 2.4 2.4 2.6 2.6	2.8 3.2 3.6 e3.3 e3.3	e2.9 2.7 2.5 2.5 2.6	e5.0 e4.9 e5.0 e5.0 e5.1	8.3 8.1 8.2 8.9 7.9	4.3 3.3 2.3 2.7 3.8	5.1 4.3 3.8 3.1 2.8	2.3 2.3 2.2 2.4 2.4	e1.1 e1.0 e0.97 e1.0 e1.1	62 20 12 6.9 5.4	2.5 2.3 2.2 2.0 1.9
11 12 13 14 15	1.8 1.7 1.7 1.7	2.6 2.6 2.8 2.6 2.8	e3.2 e3.3 e3.0 2.8 2.8	3.1 3.4 e3.3 e3.4 e3.3	4.8 e5.0 e5.0 4.6 5.0	7.9 7.4 7.9 7.4 6.9	5.2 13 9.8 6.5 5.7	2.6 2.9 3.2 3.7 3.5	2.2 2.3 2.4 2.3 2.3	e1.1 e1.3 e1.5 1.5 2.7	5.0 4.4 3.8 3.4 3.1	1.8 1.7 1.7 1.7 1.7
16 17 18 19 20	1.8 1.8 1.7 1.7	2.7 2.8 3.1 2.9 3.1	e3.0 2.6 2.3 2.4 2.6	2.9 3.0 e3.1 e3.1 2.9	5.3 5.6 e6.2 e7.0 8.5	6.4 6.3 5.8 5.4 5.1	4.9 3.0 2.5 2.5 2.4	3.4 2.9 2.6 2.4 2.4	e2.8 e4.5 e4.4 e3.9 e4.3	8.0 5.0 3.5 2.8 2.9	2.8 2.6 6.4 8.9 4.5	1.6 1.6 1.5 1.6 1.5
21 22 23 24 25	2.1 1.8 1.7 1.9 2.2	3.0 2.7 e3.3 3.1 3.2	3.0 3.0 e3.0 2.9 2.8	e3.0 e3.1 e3.3 e3.6 e3.9	7.9 7.5 8.5 8.6 8.3	4.4 4.1 3.9 3.8 3.9	2.4 2.6 4.9 15	2.3 2.3 1.9 1.9	e8.9 e5.6 e1.9 e1.6 e1.5	2.0 10 5.6 9.0 4.6	3.7 3.9 3.2 3.0 2.9	1.7 1.9 2.1 2.1 1.9
26 27 28 29 30 31	2.5 2.0 2.1 2.5 2.3 2.5	e3.4 2.5 e2.8 2.5 2.6	2.9 e3.0 e2.9 e2.9 2.7 2.5	e4.2 e4.5 e4.5 e4.8 e4.9 e5.0	8.9 11 11 9.7 	3.7 2.6 2.6 3.4 3.3 3.4	9.2 7.6 6.9 7.3	1.9 1.7 1.7 1.7 1.7	e5.3 e2.8 e1.9 e1.7 e1.5	3.9 3.6 14 8.2 4.0 3.0	2.6 3.9 4.5 3.8 3.2 3.0	1.8 1.8 1.8 1.9 2.1
TOTAL MEAN MAX MIN AC-FT	58.3 1.88 2.5 1.7 116	80.9 2.70 3.4 2.2 160	90.7 2.93 3.6 2.3 180	104.3 3.36 5.0 2.5 207	188.4 6.50 11 4.6 374	188.1 6.07 9.0 2.6 373	169.1 5.64 15 2.3 335	105.2 3.39 8.2 1.7 209	86.0 2.87 8.9 1.5 171	117.17 3.78 14 0.97 232	700.5 22.6 273 2.2 1,390	62.4 2.08 4.9 1.5 124
MEAN MAX (WY) MIN (WY)	4.40 29.1 (1985) 0.97 (1953)	5.61 30.7 (1985) 1.32 (1955)	5.14 25.2 (1985) 1.41 (1964)	5.28 17.7 (1985) 1.57 (1951)	8.55 29.3 (1948) 1.99 (1956)	21.4 184 (1960) 2.36 (1972)	19.4 138 (1984) 1.70 (1963)	15.7 138 (1973) 1.43 (1963)	8.56 42.6 (1983) 1.12 (1954)	6.91 43.8 (1957) 0.80 (1981)	9.15 59.9 (1945) 0.76 (1962)	3.59 18.2 (1984) 0.78 (1950)
SUMMAR	RY STATIST	ICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 1940	- 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE 50 PERCE	MEAN ANNUAL M ANNUAL M DAILY ME DAILY ME	IEAN AN AN Y MINIMUN OW AGE AC-FT) OS	1	4,220 1	5.82 8 Apr 1.0 Aug 1.1 Aug	21	27	e0.97 Ju e1.1 Ju 60 Aug e7.99 Aug	1 8 1 5 g 4	a9,	0.20 Ju 0.29 Ju 170 Aug	1984 1954 y 6, 1973 113, 1946 110, 1946 g 5, 1945 g 5, 1945

e Estimated.a Site and datum then in use, by float measurement.

b Maximum gage height, 9.33 ft, Aug 27, 2002, current site and datum.

c From floodmarks.

## 393109104464500 CHERRY CREEK NEAR PARKER, CO

 $LOCATION.--Lat\ 39^\circ31'09", long\ 104^\circ46'45", in\ SE^1/_4NW^1/_4NE^1/_4\ sec.\ 21,\ T.6\ S.,\ R.67\ W.,\ Douglas\ County,\ Hydrologic\ Unit\ 10190003,\ on\ right\ bank\ 200\ ft\ upstream\ from\ Main\ Street,\ 1,100\ ft\ downstream\ from\ mouth\ of\ Sulphur\ Gulch,\ and\ 0.8\ mi\ west\ of\ City\ of\ Parker.$ 

DRAINAGE AREA.--287 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1991 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=393109104464500

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,805 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Several diversions upstream from station for irrigation.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	e6.2 e5.9 e6.0 e6.0 e6.0	5.2 5.3 5.6 5.4 5.2	e4.1 3.1 3.0 4.4 4.4	3.8 3.9 4.0 4.0 4.2	7.0 6.6 6.6 7.3 6.8	13 12 13 12 13	8.2 7.9 10 8.9 7.8	14 13 12 12 12	5.8 5.5 5.4 5.4 5.0	3.7 3.8 5.5 7.3 6.4	9.6 10 10 11 178	7.5 6.6 6.7 9.0 8.7	
6 7 8 9 10	e5.9 e5.8 e5.7 e5.4 e5.5	5.0 4.7 4.9 4.9 5.2	4.4 4.2 4.4 4.3 3.8	4.4 4.4 4.5 4.5	6.9 6.9 7.1 6.9 6.5	13 12 12 12 12	7.9 7.7 7.2 7.5 9.9	11 10 9.6 9.3 9.3	5.1 5.2 4.9 4.7 5.0	6.1 6.4 6.3 6.5 6.6	98 31 15 8.4 7.3	5.4 5.1 6.0 7.2 7.1	
11 12 13 14 15	e5.4 e5.3 e5.3 e5.3 5.3	5.3 5.5 6.0 6.0 6.0	3.7 3.2 3.6 3.9 4.1	4.5 4.7 4.6 4.5 4.8	6.5 6.1 6.0 6.0 6.7	11 13 13 13 12	9.7 12 15 11 9.5	9.5 12 11 11	4.7 4.4 3.8 3.7 4.7	6.5 6.5 6.1 6.1	11 8.8 10 9.5 9.5	7.0 7.3 7.1 7.1 7.3	
16 17 18 19 20	3.9 4.4 5.3 5.4 5.5	6.0 5.9 5.7 5.6 5.3	3.9 4.0 4.0 3.9 3.7	4.9 4.8 4.6 5.0 5.8	6.8 7.8 9.8 18	13 12 12 11 11	8.2 7.4 7.0 6.2 6.2	10 9.5 8.8 8.5 7.7	5.0 4.8 5.7 4.9 4.9	6.5 e30 e6.8 e4.9 4.7	9.2 9.0 66 136 38	6.9 7.2 7.1 7.0 7.0	
21 22 23 24 25	5.4 5.2 5.2 5.3 5.2	4.8 4.6 4.5 5.0 4.6	3.8 3.8 3.8 4.0 3.5	5.2 4.0 5.6 6.5 6.4	12 11 11 12 11	11 10 10 10 9.6	6.3 6.4 14 13 19	7.9 7.7 7.4 6.6 6.5	8.6 5.4 4.9 4.7 5.2	4.9 19 16 9.1 9.6	23 16 14 11 9.9	7.2 6.8 6.4 6.3 6.3	
26 27 28 29 30 31	5.0 5.0 4.8 4.9 5.0 5.1	4.5 e4.2 e4.2 e4.1 e4.1	3.9 3.9 4.2 4.2 4.0 4.1	6.1 5.9 6.8 7.2 8.1 7.6	12 13 13 14 	9.6 9.0 8.8 8.8 8.4 8.2	17 14 13 12 13	6.7 6.6 6.2 6.1 5.8 5.9	5.4 5.6 5.9 6.0 4.6	7.6 8.1 14 20 14 9.7	9.3 12 12 9.7 9.4 8.8	6.4 6.3 5.9 5.8 6.0	
TOTAL MEAN MAX MIN AC-FT	165.6 5.34 6.2 3.9 328	153.3 5.11 6.0 4.1 304	121.3 3.91 4.4 3.0 241	159.7 5.15 8.1 3.8 317	266.3 9.18 18 6.0 528	348.4 11.2 13 8.2 691	302.9 10.1 19 6.2 601	284.6 9.18 14 5.8 565	154.9 5.16 8.6 3.7 307	275.2 8.88 30 3.7 546	820.4 26.5 178 7.3 1,630	203.7 6.79 9.0 5.1 404	
MEAN MAX (WY) MIN (WY)	3.99 9.72 (2000) 1.26 (1992)	5.20 9.85 (2000) 0.79 (1995)	5.87 14.9 (2000) 0.76 (1995)	7.63 21.0 (2000) 1.51 (1995)	11.1 21.4 (2000) 1.74 (1995)	- 2004, BY W 16.3 42.8 (1992) 3.82 (1995)	19.2 47.4 (1998) 7.90 (2002)	19.3 87.9 (1999) 4.15 (1997)	11.2 47.5 (1999) 1.87 (1994)	6.93 18.3 (1998) 1.04 (1994)	9.30 29.1 (1998) 0.58 (1994)	4.03 10.3 (1999) 0.73 (1994)	
SUMMAF	RY STATIST	TCS		FOR 2003 C	CALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 1992	2 - 2004	
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE 50 PERCE	. MEAN T ANNUAL M T ANNUAL M T DAILY ME T DAILY ME	MEAN AN AN Y MINIMUN OW 'FAGE AC-FT) DS DS	М	7,330 20	). 1 ) Apr 2.0 Feb 3.4 Jan	4	6,46	78 Aug 3.0 Dec 3.7 Dec 20 Aug 7.86 Aug	g 5 c 3 c 10 g 18 g 18	a	0.43 Au 0.45 Au 900 Ju	1999 1997 y 1, 1999 g 24, 1994 g 21, 1994 il 30, 1998 il 30, 1998	

e Estimated.

a From slope-area measurement of peak flow. b From floodmark.

## 06713000 CHERRY CREEK BELOW CHERRY CREEK LAKE, CO

 $LOCATION.--Lat\ 39^\circ 39^\circ 13^\circ, long\ 104^\circ 51^\prime 45^\circ, in\ SW^{1/}_{4}SW^{1/}_{4}sec. 35, T.4\ S., R.67\ W., Denver County, Hydrologic Unit\ 10190003, on\ left\ bank\ 2,300\ ft\ downstream\ from\ Cherry\ Creek\ Dam,\ 2.2\ mi\ southeast\ of\ Sullivan,\ 9\ mi\ southeast\ of\ Civic\ Center\ in\ Denver,\ and\ 11\ mi\ upstream\ from\ mouth.$ 

DRAINAGE AREA.--385 mi<sup>2</sup>.

 $PERIOD\ OF\ RECORD. -- June\ 1950\ to\ current\ year.\ For\ a\ complete\ listing\ of\ historical\ data\ available\ for\ this\ site,\ see\ http://waterdata.usgs.gov/co/nwis/inventory/\\ ?site\_no=06713000$ 

REVISED RECORDS .-- WSP 1730: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 5,487.91 ft (revised) above NGVD of 1929, (Corps of Engineers bench mark). Prior to May 17, 1999, at site 300 ft upstream at different datum.

REMARKS.—Records fair except for discharges below 1 ft<sup>3</sup>/s and estimated daily discharges, which are poor. Flow regulated by Cherry Creek Lake (see elsewhere in this report). Diversions upstream from station for irrigation of about 1,800 acres.

DISCHARGE, CUBIC FEET PER SECOND

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood known, 34,000 ft<sup>3</sup>/s, Aug. 3, 1933, by slope-area measurement near present site (Castlewood Dam failure).

DAY						R YEAR OC		ET FER SECC TO SEPTEM ALUES					
2	DAY	OCT	NOV	DEC	JAN				MAY	JUN	JUL	AUG	SEP
The color of the	2 3 4	10 7.0 0.14	0.00 0.00 0.00	0.00 0.05 0.14	e0.00 e0.00 0.00	8.3 8.3 9.2	17 17 18	16 27 26	28 26 33	102 0.58 0.56	9.1 8.9 8.9	11 11 10	5.3 3.8 0.26
12	7 8 9	0.19 0.09 0.00	0.00 0.00 0.08	0.14 0.13 0.16	0.01 0.10 0.05	7.2 7.2 7.0	18 18 18	8.0 0.11 16	39 29 28	0.65 0.72 0.68	8.6 9.3 9.4	10 10 11	0.33 0.33 0.33
17	12 13 14	0.04 0.02 0.00	0.12 0.05 0.00	0.01 0.00 0.00	e1.0 e8.0 e8.0	3.2 5.3 15	15 18 18	48 46 39	4.5 3.4 3.5	0.69 0.73 0.82	9.4 9.2 9.5	31 42 52	0.37 0.42 0.49
22	17 18 19	0.00 0.00 0.00	e0.00 e0.00 e0.00	0.12 0.14 0.05	e8.0 e8.0 e8.0	16 16 8.5	0.00 0.00 0.00	19 20 14	7.8 8.1 6.0	1.2 1.4 1.3	9.5 9.4 9.5	53 62 56	0.58 0.53 0.48
27	22 23 24	0.00 0.00 0.00	e0.00 0.00 0.00	0.00 0.00 0.00	e8.0 e8.0 e8.0	18 20 20	0.00 0.00 0.00	6.3 7.6 7.3	4.6 4.2 2.8	0.87 0.85 1.0	9.7 10 10	170 166 165	0.54 11 19
MEAN         0.96         0.02         0.08         4.95         12.4         8.29         21.7         13.1         5.00         9.58         72.3         4.16           MAX         12         0.15         0.52         8.4         20         18         48         39         102         11         172         19           MIN         0.00         0.00         0.00         0.00         3.2         0.00         0.11         1.5         0.53         8.6         10         0.26           AC-FT         59         1.1         4.6         304         714         510         1,290         805         297         589         4.450         248           STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2004, BY WATER YEAR (WY)           MEAN         2.05         2.89         3.87         3.52         8.25         13.6         19.1         15.1         9.94         5.24         12.2         3.13           MAX         29.6         38.5         39.1         42.4         60.3         108         166         124         243         71.3         218         54.2           (WY)         (1985)         (1985)         (1985)         (1984) <td>27 28 29 30</td> <td>0.00 0.00 0.00 0.00</td> <td>0.00 0.00 0.00 0.00</td> <td>0.17 e0.00 e0.00 e0.00</td> <td>e8.0 e8.0 e8.0 7.9</td> <td>19 18 18</td> <td>0.00 0.00 0.00 0.00</td> <td>30 28 26 25</td> <td>3.0 1.5 1.7 2.1</td> <td>1.6 1.5 5.0 9.5</td> <td>10 10 10 11</td> <td>155 153 153 110</td> <td>12 12 12 12</td>	27 28 29 30	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.17 e0.00 e0.00 e0.00	e8.0 e8.0 e8.0 7.9	19 18 18	0.00 0.00 0.00 0.00	30 28 26 25	3.0 1.5 1.7 2.1	1.6 1.5 5.0 9.5	10 10 10 11	155 153 153 110	12 12 12 12
MEAN         2.05         2.89         3.87         3.52         8.25         13.6         19.1         15.1         9.94         5.24         12.2         3.13           MAX         29.6         38.5         39.1         42.4         60.3         108         166         124         243         71.3         218         54.2           (WY)         (1985)         (1985)         (1985)         (1985)         (1985)         (1984)         (1974)         (1984)         (1999)         (1973)         (1983)         (1965)         (1965)           MIN         0.00	MEAN MAX MIN AC-FT	0.96 12 0.00 59	0.02 0.15 0.00 1.1	0.08 0.52 0.00 4.6	4.95 8.4 0.00 304	12.4 20 3.2 714	8.29 18 0.00 510	21.7 48 0.11 1,290	13.1 39 1.5 805	5.00 102 0.53	9.58 11 8.6	72.3 172 10	4.16 19 0.26
MAX         29.6         38.5         39.1         42.4         60.3         108         166         124         243         71.3         218         54.2           (WY)         (1985)         (1985)         (1985)         (1985)         (1984)         (1974)         (1984)         (1999)         (1973)         (1983)         (1965)         (1957)         (1957)         (1957)         (1957)         (1957)         (1957)         (1957)         (1957)         (1957)         (1957) <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.04</td><td>5.24</td><td>12.2</td><td>2.12</td></t<>										0.04	5.24	12.2	2.12
ANNUAL TOTAL 5,647.98 4,674.45  ANNUAL MEAN 15.5 12.8 8.26  HIGHEST ANNUAL MEAN 15.5 12.8 8.26  HIGHEST ANNUAL MEAN 10.00 1967  HIGHEST ANNUAL MEAN 196 May 2 172 Aug 21 721 Aug 1, 1956  LOWEST DAILY MEAN 196 May 2 172 Aug 21 721 Aug 1, 1956  LOWEST DAILY MEAN 196 196 196 1967  ANNUAL SEVEN-DAY MINIMUM 196 196 196 196 1967  MAXIMUM PEAK FLOW 1,120 196 196 196 1967  MAXIMUM PEAK STAGE 1,200 1967  ANNUAL RUNOFF (AC-FT) 11,200 9,270 5,980  10 PERCENT EXCEEDS 34 28 19  50 PERCENT EXCEEDS 1,000 15.4 0.00	MAX (WY) MIN	29.6 (1985) 0.00	38.5 (1985) 0.00	39.1 (1985) 0.00	42.4 (1985) 0.00	60.3 (1984) 0.00	108 (1974) 0.00	166 (1984) 0.00	124 (1999) 0.00	243 (1973) 0.00	71.3 (1983) 0.00	218 (1965) 0.00	54.2 (1965) 0.00
ANNUAL MEAN 15.5 12.8 8.26 HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN 196 May 2 172 Aug 21 721 Aug 1, 1956 LOWEST DAILY MEAN 30.00 Jan 1 30.00 Oct 9 30.00 May 19, 1957 ANNUAL SEVEN-DAY MINIMUM 30.00 Jan 1 30.00 Oct 14 30.00 May 19, 1957 ANNUAL SEVEN-DAY MINIMUM 30.00 Jan 1 30.00 Oct 14 30.00 May 19, 1957 ANNUAL SEVEN-DAY MINIMUM PEAK FLOW 1,120 Jun 2 1,600 May 26, 1999 MAXIMUM PEAK STAGE 6.48 Jun 2 6.92 May 26, 1999 ANNUAL RUNOFF (AC-FT) 11,200 9,270 5,980 10 PERCENT EXCEEDS 34 28 19 50 PERCENT EXCEEDS 0.96 5.4 0.00	SUMMAI	RY STATIST	TICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	)4 WATER Y	/EAR	WATER	YEARS 19	50 - 2004
	ANNUAL HIGHEST LOWEST HIGHEST LOWEST ANNUAL MAXIMU ANNUAL 10 PERCE 50 PERCE	MEAN ANNUAL I ANNUAL I ANNUAL I ANNUAL I DAILY ME DAILY ME J M PEAK FI J M PEAK FI M PEAK ST RUNOFF (A ENT EXCEE	MEAN EAN AN LY MINIMUI LOW FAGE AC-FT) DS DS	M	196 a( a( 11,200 32	5.5 6 May 0.00 Jan 0.00 Jan 0 4	1	17 8 8 1,12 9,27	72 Au a0.00 Oc a0.00 Oc 20 Ju 6.48 Ju 70 28 5.4	et 9 et 14 n 2	1,	38.8 0.00 721 A a0.00 M a0.00 M 600 M 6.92 M 980 19 0.00	1967 ug 1, 1956 ay 19, 1957 ay 19, 1957 ay 26, 1999

e Estimated.

a No flow many days.

#### 06713500 CHERRY CREEK AT DENVER, CO

LOCATION.--Lat 39°44'33", long 104°59'58", in SE<sup>1</sup>/<sub>4</sub> sec.33, T.3 S., R.68 W., Denver County, Hydrologic Unit 10190003, on left bank 100 ft downstream from Champa Street bridge in Denver, and 1.1 mi upstream from mouth.

DRAINAGE AREA.--409 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1942 to September 1969, February 1980 to September 1983, and annual maximums 1984, 1985. April 1986 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06713500

REVISED RECORDS.--WSP 1710: Drainage area. WDR CO-82-1: 1982 (M).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,180 ft above NGVD of 1929, from topographic map. See WSP 1730 for history of changes prior to July 16, 1951. Prior to Mar. 1, 1995, at site 0.6 mi downstream, on downstream side of Wazee Street bridge, at different datum. Mar. 1, 1995 to May 11, 1998, at site 0.4 mi downstream, 300 ft upstream from Market Street bridge, at different datum.

REMARKS.--Records fair except for estimated daily discharges and flows above 200 cfs, which are poor. Several diversions upstream from station for irrigation of about 1,900 acres. Floodflow regulated by Cherry Creek Reservoir 11 mi upstream, capacity, 95,960 acre-ft. Water-quality data has been collected at this site as part of the South Platte River Basin National Water-Quality Assessment Program and is available at http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06713500

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 26, 1885, reached a discharge of 20,000 ft<sup>3</sup>/s, by float measurement. Flood of May 19 and 20, 1864, reached a somewhat higher stage. Flood of Aug. 3, 1933, reached a discharge of about 15,000 ft<sup>3</sup>/s, as determined by rise of South Platte River at Denver.

DISCHARGE, CUBIC FEET PER SECOND

				R YEAR OC	TOBER 2003	TO SEPTEM					
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
28 25 24 e17 e12	11 9.8 12 9.9 9.3	10 9.9 9.5 9.9	9.8 12 11 9.5 8.2	19 16 16 19 18	24 23 22 28 42	15 46 97 30 29	74 55 48 48 47	14 86 17 12 11	19 17 17 19 20	16 17 19 16 17	29 24 22 26 19
e12 e12 e11 e11 e10	9.5 9.4 9.4 9.3 9.5	10 9.6 12 18 13	8.2 9.0 9.4 10 9.0	19 20 18 17 16	24 22 22 23 22	26 22 29 35 106	46 46 46 43 37	11 11 11 23 7.0	19 18 16 21 18	38 30 22 19 52	17 15 15 15 15
e10 e10 e10 e10 e10	9.4 8.7 9.0 9.1 8.8	11 11 10 12 12	8.6 9.8 9.8 10 13	17 16 15 22 25	23 21 22 22 21	62 85 54 50 33	32 118 64 24 17	5.9 5.6 5.6 5.9 6.1	17 18 17 17 19	68 44 42 52 52	14 15 14 14
e10 e10 e10 e10 e10	8.5 8.9 9.3 9.4 9.2	11 11 14 17 13	14 14 14 15 19	24 26 26 33 30	10 8.9 8.4 8.3 9.6	32 31 32 32 22	16 16 15 14 14	12 31 74 54 13	75 40 23 18 17	53 53 516 373 103	14 13 13 13 13
e10 e10 e10 e10 e9.5	9.2 9.3 10 14 11	9.6 10 9.9 9.6 9.4	17 16 16 16 16	26 25 24 24 24	10 11 11 11 12	37 60 140 47 28	14 13 13 14 15	80 19 13 12 12	17 18 33 33 20	144 144 144 145 138	67 53 17 31 47
e9.5 e9.8 e9.5 e9.5 9.1	10 10 10 10 9.5	9.5 9.3 11 9.7 9.7	20 21 22 19 17 16	24 23 23 31 	11 8.0 8.0 7.9 8.1 8.0	28 40 41 43 95	14 14 15 19 15 13	17 25 15 22 24	18 17 24 20 17 16	146 241 153 146 133 62	26 56 62 35 39
368.9 11.9 28 9.1 732	292.4 9.75 14 8.5 580	341.6 11.0 18 9.3 678	419.3 13.5 22 8.2 832	636 21.9 33 15 1,260	512.2 16.5 42 7.9 1,020	1,427 47.6 140 15 2,830	979 31.6 118 13 1,940	655.1 21.8 86 5.6 1,300	678 21.9 75 16 1,340	3,198 103 516 16 6,340	767 25.6 67 13 1,520
							, ,	21.5	27.1	40.1	18.8
37.2 (1998) 3.66 (1949)	47.1 (1998) 3.61 (1955)	54.4 (1988) 3.39 (1956)	37.0 (2000) 3.17 (1956)	73.8 (1948) 4.18 (1952)	179 (1948) 3.25 (1955)	119 (1983) 3.28 (1955)	156 (1999) 6.10 (1966)	118 (1944) 3.17 (1946)	161 (1983) 3.74 (1948)	236 (1945) 4.05 (1948)	64.9 (1965) 4.03 (1948)
RY STATIST	ICS		FOR 2003 C	CALENDAR Y	YEAR	FOR 200	)4 WATER Y	EAR	WATER	YEARS 1942	2 - 2004
ANNUAL M. DAILY ME. DAILY ME. SEVEN-DA M. PEAK FL M. RUNOFF (A. RU	IEAN AN AN Y MINIMUM OW AGE AC-FT) OS OS		351 351 24,790 100	1.2 1 Jul 5.2 Feb 5.4 Mar	18	51 b3,67 20,38	28.1  16 Au; 5.6 Ju; 6.9 Ju; 70 Au; 9.60 Au; 80	n 12 n 10 g 18	b3,	a0.40 Ju 0.93 Ju 670 Au c,d9.60 Au	1983 1954 g 8, 1945 n 16, 1948 n 14, 1948 g 18, 2004 g 18, 2004
	28 25 24 e17 e12 e12 e12 e11 e11 e10 e10 e10 e10 e10 e10 e10 e10	28 11 25 9.8 24 12 e17 9.9 e12 9.3 e12 9.5 e12 9.4 e11 9.4 e11 9.3 e10 9.5 e10 9.7 e10 9.0 e10 9.1 e10 8.8 e10 8.7 e10 9.0 e10 9.1 e10 8.8 e10 8.5 e10 8.9 e10 9.2 e10 9.3 e10 9.3 e10 9.4 e10 9.2 e10 9.2 e10 9.2 e10 9.2 e10 9.3 e10 10 e10 9.3 e10 10 e10 9.3 e10 10 e10 8.8 e10 8.5 e10 8.9 e10 9.2 e10 9.2 e10 9.2 e10 9.2 e10 9.2 e10 9.3 e10 10 e10 10 e10 14 e9.5 11 e9.5 10 e	28 11 10 25 9.8 9.9 24 12 9.5 e17 9.9 9.9 e12 9.3 10 e12 9.3 10 e12 9.4 9.6 e11 9.4 12 e11 9.3 18 e10 9.5 13 e10 8.7 11 e10 8.7 11 e10 8.7 11 e10 9.0 10 e10 9.1 12 e10 8.8 12 e10 8.8 12 e10 9.3 14 e10 9.2 13 e10 9.3 10 e10 10 10 9.9 e10 14 9.6 e9.5 11 9.4 e9.5 10 9.3 e9.5 11 9.4 e9.5 10 9.3 e9.5 10 11 e9.5 10 9.7 9.1 9.5 9.7 10 10 368.9 292.4 341.6 11.9 9.75 11.0 368.9 292.4 341.6 11.9 9.75 11.0 28 14 18 9.1 8.5 9.3 732 580 678 ICS OF MONTHLY MEAN DATA FOR ANNUAL MEAN ANNUAL M	OCT NOV DEC JAN  28 11 10 9.8 25 9.8 9.9 12 24 12 9.5 11 e17 9.9 9.9 9.9 e12 9.3 10 8.2 e12 9.5 10 8.2 e12 9.5 10 8.2 e12 9.5 10 8.2 e11 9.4 12 9.4 e11 9.4 12 9.4 e11 9.3 18 10 e10 9.5 13 9.0 e10 8.7 11 9.8 e10 9.1 12 10 e10 8.8 12 13 e10 9.0 10 9.8 e10 9.1 12 10 e10 8.8 12 13 e10 8.9 11 14 e10 9.3 14 14 e10 9.3 14 14 e10 9.3 14 16 e10 9.2 13 19 e10 9.2 13 19 e10 9.2 13 19 e10 9.2 16 16 e10 10 9.3 10 16 e10 10 9.9 16 e10 10 9.9 16 e10 14 9.6 16 e9.5 11 9.4 16 e9.5 10 9.5 20 e9.8 10 9.3 21 e9.5 10 11 22 e9.5 10 11 22 e9.5 10 9.7 19 9.1 9.5 9.7 17 10 10 16 368.9 292.4 341.6 419.3 11.9 9.75 11.0 13.5 28 14 18 22 e9.5 10 9.7 19 9.1 9.5 9.7 17 10 10 16 368.9 292.4 341.6 419.3 11.9 9.75 11.0 13.5 28 14 18 22 e9.5 10 9.7 19 9.1 9.5 9.7 17 10 10 16 368.9 292.4 341.6 419.3 11.9 9.75 11.0 13.5 28 14 18 22 e9.5 10 9.7 19 9.1 9.5 9.7 17 10 10 16 368.9 292.4 341.6 419.3 11.9 9.75 11.0 13.5 28 14 18 22 e9.5 10 9.7 19 e9.5 10 9.7 19 e9.1 9.5 9.7 17 10 10 16 368.9 292.4 341.6 419.3 11.9 9.75 11.0 13.5 28 14 18 22 e9.5 10 9.7 19 e9.5 10 9.7 19 e9.1 9.5 9.7 17 10 10 16 368.9 292.4 341.6 419.3 11.9 9.75 11.0 13.5 28 14 18 22 e9.5 10 9.7 19 e9.5 10 9.7 19 e9.1 9.5 9.7 17 10 10 16 368.9 292.4 341.6 419.3 37.2 47.1 54.4 37.0 (1998) (1998) (1988) (2000) 3.66 3.61 3.39 3.17 OANUAL MEAN ANNUAL MEAN ANNUA	OCT NOV DEC JAN FEB  28 11 10 9.8 19 25 9.8 9.9 12 16 24 12 9.5 11 16 e17 9.9 9.9 9.9 5.5 19 e12 9.3 10 8.2 19 e12 9.5 10 8.2 19 e12 9.4 9.6 9.0 20 e11 9.4 12 9.4 18 e11 9.3 18 10 17 e10 9.5 13 9.0 16 e10 9.5 13 9.0 16 e10 9.1 12 9.8 16 e10 9.0 10 9.8 15 e10 9.1 12 10 22 e10 8.8 12 13 25 e10 8.5 11 14 24 e10 9.1 12 10 22 e10 8.8 12 13 25 e10 8.5 11 14 26 e10 9.3 14 14 26 e10 9.3 16 25 e10 9.2 13 19 30 e10 9.2 9.6 17 26 e10 10 9.3 10 16 25 e10 10 9.3 10 16 24 e9.5 10 9.5 20 24 e9.5 11 9.4 16 24 e9.5 10 9.5 9.7 17 10 368.9 292.4 341.6 419.3 636 11.9 9.75 11.0 13.5 21.9 28 14 18 22 33 9.1 8.5 9.3 8.2 15 732 580 678 832 1,260 ICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942  RY STATISTICS FOR 2003 CALENDAR YATER ANNUAL MEAN ANUAL MEAN ANNUAL MEAN ANDALL MEAN ANUAL MEAN ANUAL MEAN ANUAL MEAN ANUAL MEA	OCT NOV DEC JAN FEB MAR  28 11 10 9.8 19 24  25 9.8 9.9 12 16 23  24 12 9.5 11 16 22  e17 9.9 9.9 9.5 19 28  e12 9.3 10 8.2 18 42  e12 9.5 10 8.2 19 24  e12 9.5 10 8.2 19 24  e11 9.4 12 9.4 18 22  e11 9.4 12 9.4 18 22  e11 9.4 12 9.4 18 22  e11 9.4 12 9.5 13 9.0 16 22  e10 9.4 11 8.6 17 23  e10 9.5 13 9.0 16 22  e10 9.4 11 8.6 17 23  e10 9.7 11 9.8 16 21  e10 9.1 12 10 22  e10 8.7 11 9.8 16 21  e10 9.1 12 10 22 22  e10 8.8 12 13 25 21  e10 8.9 11 14 26 8.9  e10 9.3 14 14 26 8.9  e10 9.3 14 14 26 8.9  e10 9.3 10 16 25 11  e10 9.9 16 24 11  e9.5 10 9.2 9.6 17 26 10  e10 9.3 10 16 25 11  e10 9.3 10 16 24 11  e9.5 10 9.7 19 30 9.6  e10 9.7 19 31 7.9  e10 9.7 19 31 7.9  e9.8 10 9.3 21 23 8.0  e9.5 10 11 22 23 8.0  e9.5 10 11 22 23 8.0  e9.5 10 9.5 20 24 11  e9.5 10 9.5 9.7 17 8.1  e9.5 10 11 22 23 8.0  e9.5 10 11 22 25 25 8.0  e9.8 10 9.3 8.2 15 7.9  e9.8 15 22 15 7.9  e9.8 16 24 11  e9.5 10 9.5 9.7 17 8.1  e9.8 10 9.9 16 24 11  e9.5 10 9.5 9.7 17 8.1  e9.5 10 9.5 9.7 19 31 9.3  e9.5 10 9.5 9.7 19 31 9.3  e9.5 10 9.5 9.7 19 9.7 19 9.7  e9.8 14 8 22 23 34 42  e9.8 14 8 8 22 82  e9.8 14 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	OCT NOV DEC JAN FEB MAR APR  28 11 10 9.8 19 24 15 25 9.8 9.9 12 16 23 46 24 12 9.5 11 16 22 97 e17 9.9 9.9 9.5 19 28 30 e12 9.3 10 8.2 19 24 26 e12 9.5 10 8.2 19 24 26 e12 9.4 9.6 9.0 20 22 22 e11 9.4 9.6 9.0 20 22 22 e11 9.3 18 10 17 23 35 e10 9.5 13 9.0 16 22 106 e10 9.4 11 8.6 17 23 35 e10 8.7 11 9.8 16 21 85 e10 9.1 12 10 22 22 50 e10 8.7 11 9.8 16 21 85 e10 9.1 12 10 22 22 50 e10 8.8 12 13 25 21 33 e10 8.5 11 14 24 10 32 e10 9.1 12 10 22 22 50 e10 9.1 12 10 22 22 25 e10 8.8 12 13 25 21 33 e10 8.5 11 14 26 8.9 31 e10 9.3 14 114 26 8.9 31 e10 9.3 14 114 26 8.9 31 e10 9.3 15 11 14 26 8.9 31 e10 9.3 14 14 26 8.9 31 e10 9.3 10 16 25 11 60 e10 9.4 17 15 33 8.3 32 e10 9.2 13 19 30 9.6 62 e10 9.2 13 19 30 9.6 62 e10 9.2 13 19 30 9.6 22 e10 9.2 13 19 30 9.6 22 e10 9.2 13 19 30 9.6 22 e10 9.3 10 16 25 11 60 e10 10 9.3 10 16 25 11 60 e10 11 22 28 e9.5 10 9.5 20 24 11 40 e9.5 10 9.3 21 23 8.0 40 e9.5 10 9.7 19 31 7.9 43 e9.5 10 9.7 19 515 e9.5 10 9.7 19 515 e9.5 10 9.7 19 31 7.9 15 e9.5 10 9.7 19 515 e9.5 10 9.7 19 515 e9.5 10 11 9.5 9.7 17	OCT NOV DEC JAN FEB MAR APR MAY  28 11 10 9.8 19 24 15 74  25 9.8 9.9 12 16 23 46 55  24 12 9.5 11 6 22 97 48  e17 9.9 9.9 9.5 19 28 30 48  e12 9.3 10 8.2 18 42 29 47  e12 9.5 10 8.2 19 24 26 46  e11 9.4 12 9.4 18 22 22 24 46  e11 9.3 18 10 17 23 35 43  e10 9.5 13 9.0 16 22 39 46  e11 9.4 12 9.4 18 22 29 46  e11 9.3 18 10 17 23 55 18  e10 9.5 13 9.0 16 22 106 37  e10 8.7 11 9.8 16 21 85 118  e10 9.0 10 9.8 15 22 50 24  e10 9.0 10 9.8 15 22 50 24  e10 8.8 12 13 25 21 33 17  e10 8.8 12 10 22 22 16  e10 8.9 11 14 26 8.9 31 16  e10 9.1 12 10 22 22 25 50 24  e10 8.9 11 14 26 8.9 31 16  e10 9.3 14 14 26 8.9 31 16  e10 9.2 13 19 30 9.6 22 14  e10 9.2 13 19 30 9.6 22 14  e10 9.2 16 19 24 11 14 26 8.9 31 16  e10 9.2 16 17 26 10 37 14  e10 9.2 17 19 30 9.6 22 14  e10 9.2 17 19 30 9.6 22 14  e10 9.1 12 10 22 22 50 24  e10 9.2 13 19 30 9.6 22 14  e10 9.1 12 10 22 22 50 16  e10 9.2 13 19 30 9.6 22 14  e10 9.1 14 14 26 8.9 31 16  e10 9.2 13 19 30 9.6 22 14  e10 9.3 14 14 14 26 8.4 11 140 13  e10 9.5 10 9.7 19 31 7.9 43 19  e10 9.5 10 9.7 19 31 7.9 43 19  e10 9.5 10 9.7 19 31 7.9 43 19  e10 9.5 10 9.7 19 31 7.9 43 19  e10 9.1 8.5 9.3 82 15 7.9 15 13  368.9 292.4 341.6 41.9 3636 512.2 1,427 979  11.9 9.75 11.0 13.5 21.9 16.5 47.6 31.6  e10 9.1 8.5 9.3 82 15 7.9 15 13  37.2 47.1 54.4 37.0 73.8 179 119 15  28 14 18 22 33 42 140 118  e9.5 10 9.7 19 31 7.9 43 19  EVENTINUAL MEAN  ANNUAL MEAN  B	NOCT   NOV   DEC   JAN   FEB   MAR   APR   MAY   JUN	OCT	OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG  28 11 10 9.8 19 24 15 74 14 19 16  25 19.8 93 112 16 23 46 55 86 17 17 17  24 12 9.5 95 12 16 22 97 48 17 17 19 19  26 12 9.3 10 8.2 18 42 29 47 11 20 11 19 38  27 28 18 10 9.4 18 29 48 17 11 19 19  28 11 9.4 12 9.5 18 42 29 47 11 12 10 19 19  29 20 10 8.2 18 42 29 47 11 19 19 19  20 21 9.5 10 8.2 18 42 29 47 11 12 10 19 19  20 21 9.5 10 8.2 18 42 29 47 11 12 10 19 19  20 21 9.5 10 8.2 18 42 29 46 11 1 18 20 17  20 21 9.5 10 8.2 18 42 29 46 11 1 18 20 17  20 21 9.5 10 8.2 18 42 29 46 11 1 18 20 17  20 21 9.5 13 9.0 16 22 18 55 43 22 19 10 11 18 20 17  20 21 9.5 13 9.0 16 22 106 37 7 7.0 18 52 11 19 20 10 19 24 20 10 10 17 23 35 43 22 11 19 20 10 19 24 10 10 19 24 10 10 19 24 10 10 19 24 10 10 19 24 10 10 19 24 10 10 10 10 10 10 10 10 10 10 10 10 10

Estimated

Also occurred Jun 17-18, 1948.

From rating curve extended above 3,350 ft<sup>3</sup>/s.

From floodmark.

From floodmark.
 Maximum gage height, 11.98 ft, Jun 28, 1997, site and datum then in use.

#### 06714000 SOUTH PLATTE RIVER AT DENVER, CO

LOCATION.--Lat 39°45'35", long 105°00'10", in  $NW^1_4SE^1_4$  sec. 28, T.3 S., R.68 W., Denver County, Hydrologic Unit 10190003, on right bank 90 ft upstream from Nineteenth Street bridge in Denver, and 0.4 mi downstream from Cherry Creek.

DRAINAGE AREA.--3,861 mi<sup>2</sup>.

PERIOD OF RECORD.--May to October 1889, June to October 1890, July 1895 to current year. Monthly discharge only for some periods, published in WSP 1310. Statistical summary computed for 1976 to current year, subsequent to completion of Chatfield Dam. For a complete listing of historical data available for this site, see <a href="http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06714000">http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06714000</a>

REVISED RECORDS.--WSP 1310: 1934(M). WSP 1730: 1957(M). WDR CO-86-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 5,157.64 ft above NGVD of 1929, adjustment of 1960. Prior to Aug. 12, 1909, nonrecording gages, and Aug. 12, 1909 to Aug. 28, 1931, water-stage recorder, at several sites within 0.5 mi of present site at various datums. Aug. 29, 1931 to June 28, 1965, water-stage recorder at site 70 ft downstream at datum 3.66 ft lower. June 29, 1965 to Mar. 18, 1966, water-stage recorder at site 70 ft downstream at present datum.

REMARKS.--No estimated daily discharges. Records good except for Aug. 18-19, which are fair. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation of about 79,000 acres and municipal use, and return flow from irrigated areas.

COOPERATION .-- Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

1	DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Part	2	115	85	65	75	111	132	154	534	193	583	436	192	
	3	106	80	62	81	103	147	612	324	118	353	296	271	
	4	101	73	67	80	111	159	166	325	110	306	309	219	
12	7	90	68	64	76	135	163	419	346	290	274	570	180	
	8	93	67	78	76	133	160	296	358	202	216	600	165	
	9	87	65	106	77	123	120	431	267	392	411	425	138	
17	12	92	68	70	78	109	98	538	776	147	295	430	129	
	13	91	67	67	74	98	91	280	683	123	271	322	125	
	14	94	64	80	70	113	96	247	619	114	232	319	147	
The color of the	17	87	74	84	84	124	72	280	193	229	523	194	137	
	18	82	72	89	85	132	70	292	220	508	820	1,500	111	
	19	79	69	87	86	189	81	290	275	596	732	1,890	101	
1	22	72	70	85	92	147	86	362	186	319	302	370	334	
	23	70	81	80	87	140	80	763	279	198	520	383	176	
	24	68	89	78	85	122	74	327	215	161	947	495	179	
MEAN         88.4         71.1         77.0         88.7         130         106         329         311         296         449         505         186           MAX         140         91         106         173         237         292         763         776         880         991         1,890         414           MIN         68         62         62         70         98         62         79         136         108         164         194         101           AC-FT         5,430         4,230         4,740         5,450         7,480         6,510         19,600         19,130         17,630         27,610         31,070         11,100           STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2004, BY WATER YEAR (WY)           MEAN         191         182         137         126         142         192         425         861         776         555         465         226           MAX         1,184         809         366         282         273         420         1,377         2,970         2,759         2,546         1,774         911           (WY)         (1985)         (1985)         (1985)         (1984	27 28 29 30	91 82 78 77	67 62 66 62	81 75 76 73	173 122 108 107	111 113 193	62 66 73 69	211 279 364 638	144 136 137 139	519 880 682 403	365 451 597 509	731 431 359 361	212 414 179 222	
MEAN         191         182         137         126         142         192         425         861         776         555         465         226           MAX         1,184         809         366         282         273         420         1,377         2,970         2,759         2,546         1,774         911           (WY)         (1985)         (1985)         (1985)         (1985)         (1985)         (1985)         (1985)         (1985)         (1984)         (1980)         (1983)         (1995)         (1984)         (1984)           MIN         66.8         65.6         62.4         62.3         62.3         94.9         99.1         141         150         87.5         71.3         76.5           (WY)         (1978)         (2003)         (2003)         (2003)         (2003)         (2003)         (2002)         (2002)         (2002)         (2002)         (2002)         (2002)         (2002)         (2002)         (2002)         (2002)         (1977)           SUMMARY STATISTICS         FOR 2003 CALENDAR YEAR         FOR 2004 WATER YEAR         WATER YEARS 1976 - 2004           ANNUAL BEAN         226 <td col<="" td=""><td>MEAN</td><td>88.4</td><td>71.1</td><td>77.0</td><td>88.7</td><td>130</td><td>106</td><td>329</td><td>311</td><td>296</td><td>449</td><td>505</td><td>186</td></td>	<td>MEAN</td> <td>88.4</td> <td>71.1</td> <td>77.0</td> <td>88.7</td> <td>130</td> <td>106</td> <td>329</td> <td>311</td> <td>296</td> <td>449</td> <td>505</td> <td>186</td>	MEAN	88.4	71.1	77.0	88.7	130	106	329	311	296	449	505	186
	MAX	140	91	106	173	237	292	763	776	880	991	1,890	414	
	MIN	68	62	62	70	98	62	79	136	108	164	194	101	
MAX         1,184         809         366         282         273         420         1,377         2,970         2,759         2,546         1,774         911           (WY)         (1985)         (1985)         (1985)         (1985)         (1985)         (1984)         (1980)         (1983)         (1995)         (1984)         (1984)           MIN         66.8         65.6         62.4         62.3         62.3         94.9         99.1         141         150         87.5         71.3         76.5           (WY)         (1978)         (2003)         (2003)         (2003)         (2003)         (2003)         (1978)         (1982)         (2002)         (2002)         (2002)         (2002)         (2002)         (2002)         (2002)         (2002)         (2002)         (2002)         (2002)         (1977)           SUMMARY STATISTICS         FOR 2003 CALENDAR YEAR         FOR 2004 WATER YEAR         WATER YEARS 1976 - 2004           ANNUAL MEAN         226         80,652           ANNUAL MEAN         1,270         Apr 24         1,890         Aug 19         64,002         May 27, 1987														

Average discharge for 79 years (water years 1896-1974), 344 ft<sup>3</sup>/s; 249,200 acre-ft/yr, prior to completion of Chatfield Dam.

Maximum daily discharge for period of record, 12,000 ft<sup>3</sup>/s, Jun 17, 1965.

Minimum daily discharge for period of record, 8.8 ft<sup>3</sup>/s, Mar 25, 1951.

Maximum discharge and stage for period of record, 40,300 ft<sup>3</sup>/s, Jun 17, 1965, gage height, 18.66 ft, from floodmarks, present datum, from rating curve extended above 2,700 ft<sup>3</sup>/s, on basis of contracted-opening measurement of peak flow.

#### 06714215 SOUTH PLATTE RIVER AT 64TH AVENUE, AT COMMERCE CITY, CO

LOCATION.--Lat 39°48'44", long 104°57'28", in NW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.12, T.3 S., R.68 W., Adams County, Hydrologic Unit 10190003, on left bank 300 ft southeast of intersection of York Street and East 64th Avenue, and 1,900 ft upstream from mouth of Sand Creek at northwest corner of Metro Denver Sewage Disposal plant at Commerce City.

DRAINAGE AREA.--3,884 mi<sup>2</sup>.

PERIOD OF RECORD.--January 1982 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=06714215

REVISED RECORDS.--WDR CO-86-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry, and concrete control. Elevation of gage is 5,105 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Natural flow of stream affected by transmountain diversions, storage and flood-control reservoirs, power developments, diversions for irrigation and municipal use, and return flow from irrigated areas.

reservo	irs, power de	evelopments,	diversions to		nd municipal i DISCHARGE ER YEAR OC'	, CUBIC FEI TOBER 2003	ET PER SECO TO SEPTEM	OND				
DAY	OCT	NOV	DEC	JAN	DAI FEB	LY MEAN V MAR	'ALUES APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	12 9.4 9.0 9.7	8.7 8.3 8.3 8.0 8.0	10 8.4 8.2 9.8 7.9	7.3 7.1 7.3 7.3 11	9.8 10 9.5 9.9 9.0	155 150 164 178 354	23 64 619 68 23	322 152 21 19 18	16 70 17 11	12 75 11 19 78	163 330 229 245 257	9.4 9.9 9.1 99 222
6 7 8 9 10	8.8 19 24 19	6.9 7.0 7.5 7.5 10	7.8 7.3 8.4 8.8 9.4	9.5 e8.0 6.4 7.4 7.6	8.7 9.2 9.8 35 118	218 188 185 148 133	111 179 77 315 580	19 74 277 177 191	123 204 122 378 257	98 135 103 318 356	462 535 583 402 414	159 103 55 33 29
11 12 13 14 15	20 18 16 15 12	9.0 7.6 7.7 6.8 9.4	e9.4 11 9.5 9.5 8.2	7.5 7.1 8.2 8.1 9.0	138 130 121 128 138	134 121 111 119 117	243 341 50 18 17	268 794 583 209 110	200 86 59 44 37	257 234 206 160 95	569 394 268 264 252	31 25 21 29 42
16 17 18 19 20	12 10 10 11 11	7.6 7.1 7.0 8.9 10	11 8.2 8.5 11 8.7	10 9.6 10 11 10	136 136 144 191 280	99 94 89 101 103	16 21 28 33 33	15 14 12 11 13	57 148 496 357 65	339 574 811 604 318	153 120 1,920 2,030 91	39 29 19 11 8.9
21 22 23 24 25	8.8 9.2 8.2 6.6 12	11 11 9.5 7.9 6.5	8.2 10 8.7 7.8 8.3	11 10 7.9 7.4 8.8	190 164 156 141 134	107 109 103 95 89	104 241 612 56 18	28 57 156 96 64	214 89 21 15 13	189 246 511 971 616	35 14 12 21 87	277 306 83 75 113
26 27 28 29 30 31	10 11 11 8.5 9.4 9.2	6.2 6.9 8.0 8.2 8.7	7.7 7.4 7.7 8.4 8.6 7.4	10 9.5 9.0 8.2 7.4 8.4	130 124 110 201	89 79 83 56 26 23	16 15 15 17 252	42 25 17 13 24 16	12 171 550 218 14	153 23 232 517 445 187	149 802 227 11 8.2 9.0	80 133 274 12 10
TOTAL MEAN MAX MIN AC-FT	378.8 12.2 24 6.6 751	245.2 8.17 11 6.2 486	271.2 8.75 11 7.3 538	267.0 8.61 11 6.4 530	3,120.9 108 280 8.7 6,190	3,820 123 354 23 7,580	4,205 140 619 15 8,340	3,837 124 794 11 7,610	4,075 136 550 11 8,080	8,893 287 971 11 17,640	11,056.2 357 2,030 8.2 21,930	2,346.3 78.2 306 8.9 4,650
STATISTI MEAN MAX (WY) MIN (WY)	CS OF MON 103 1,286 (1985) 10.0 (1989)	90.3 927 (1985) 8.17 (2004)	N DATA FO 61.0 199 (1986) 8.75 (2004)	84.9 235 (1984) 8.61 (2004)	70.9 325 (1984) 8.58 (1982)	- 2004, BY W 112 305 (1984) 6.81 (1995)	/ATER YEAI 284 1,335 (1984) 21.0 (1991)	652 2,675 (1987) 33.2 (1997)	501 2,560 (1995) 45.1 (2002)	425 2,130 (1995) 42.5 (1994)	357 1,410 (1984) 35.9 (2002)	120 755 (1984) 13.4 (2003)
ANNUAL ANNUAL HIGHEST LOWEST HIGHEST LOWEST ANNUAL	MEAN ANNUAL M ANNUAL M DAILY ME DAILY MEA	MEAN IEAN AN AN Y MINIMUN	Л	23,72 6	5.0	30 7	42,51	16 30 Aug 6.2 Nov 7.5 Jai	EAR g 19 v 26 n 7 g 18	2	2.1 Ma 3.7 Ma	1983 2002 7 27, 1987 14, 1995 11, 1995 18, 1987
MAXIMU ANNUAL 10 PERCE 50 PERCE	M PEAK ST RUNOFF (A NT EXCEEI NT EXCEEI NT EXCEEI	AGE AC-FT) OS OS		47,05 17 1	6		84,33	7.11 Aug	g 18	177,4	8.09 Jui	1 8, 1987

e Estimated.

#### 394839104570300 SAND CREEK AT MOUTH NEAR COMMERCE CITY, CO

LOCATION.--Lat 39°48'36", long 104°57'00", in SE  $\frac{1}{4}$ NW  $\frac{1}{4}$ New  $\frac{1}{4}$ Sec. 12, T.3 S., R.68 W., Adams County, Hydrologic Unit 10190003, on left bank 800 ft upstream from mouth and 50 ft upstream from confluence of Burlington Ditch and Sand Creek in northeast corner of Metro Wastewater Plant.

DRAINAGE AREA.--184 mi<sup>2</sup>.

PERIOD OF RECORD.--January 1992 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=394839104570300

REVISED RECORDS .-- WDR CO-03-01: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,120 ft above NGVD of 1929, from topographic map. Prior to Mar 1, 2000, at site 400 ft downstream at different datum. Supplementary recorder on Burlington Ditch return flows, 50 ft downstream from gage.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

					DISCHARGE R YEAR OC' DAI		TO SEPTEM					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	11 10 9.4 9.8 9.7	14 13 15 13	10 10 10 9.8 9.8	13 13 13 13 13	17 17 15 17	e37 e25 e18 13 e37	e35 e28 112 31 e58	164 96 33 23 21	100 91 87 88 89	49 167 102 144 121	156 117 84 66 67	35 35 117 79 60
6 7 8 9 10	9.7 9.7 9.8 9.2	11 11 11 11 11	10 10 10 19 19	13 14 14 14 14	17 19 20 17 e18	e29 e22 e19 e17 e13	e138 e136 e146 e187 e269	92 161 75 101 69	91 82 45 55 47	117 115 87 59 64	111 90 82 e62 e59	30 42 41 28 29
11 12 13 14 15	9.8 9.2 8.7 10	11 11 11 9.7 9.6	15 11 10 12 13	14 13 13 13 13	e15 e15 e15 e15 e15	e15 e15 e14 e16 e14	e180 e193 e127 e144 e102	48 208 213 154 95	45 42 41 36 32	56 52 52 49 47	63 45 33 30 44	34 38 37 38 40
16 17 18 19 20	9.2 9.5 9.9 9.7 9.8	9.7 11 11 9.7 9.6	11 12 12 11 11	14 15 14 15 15	e15 e15 16 18 27	e15 e15 e14 e14 e16	e67 e120 e132 e134 e86	12 9.4 8.1 47 107	36 64 227 217 62	142 169 88 107 103	48 47 701 887 128	43 32 24 17 17
21 22 23 24 25	12 10 11 9.3 10	9.5 9.6 9.1 13	11 11 11 11 11	15 14 14 14 14	22 20 16 14 14	e16 e14 e14 e13 e13	e96 e114 358 e220 53	136 109 111 110 109	167 e78 25 15 10	90 101 504 562 173	76 36 35 128 87	86 111 57 44 42
26 27 28 29 30 31	11 9.7 13 11 10 12	11 10 10 9.9 9.9	11 11 11 11 12 13	15 18 18 21 17 16	15 14 e28 e48	e13 e15 e16 e35 e63 e54	33 26 22 21 126	108 105 104 105 115 104	9.5 32 62 28 27	71 124 80 102 136 145	68 244 95 27 23 65	41 49 133 123 22
TOTAL MEAN MAX MIN AC-FT	313.1 10.1 13 8.7 621	331.3 11.0 15 9.1 657	359.6 11.6 19 9.8 713	449 14.5 21 13 891	531 18.3 48 14 1,050	644 20.8 63 13 1,280	3,494 116 358 21 6,930	2,952.5 95.2 213 8.1 5,860	2,030.5 67.7 227 9.5 4,030	3,978 128 562 47 7,890	3,804 123 887 23 7,550	1,524 50.8 133 17 3,020
MEAN MAX (WY) MIN (WY)	34.6 107 (1998) 10.1 (2004)	23.6 49.0 (1998) 11.0 (2004)	19.0 35.5 (1998) 11.6 (2004)	17.4 27.7 (1997) 12.9 (1995)	27.3 102 (1997) 14.6 (1995)	42.9 124 (1997) 13.6 (1995)	65.1 168 (1999) 25.2 (1996)	80.8 150 (2001) 46.1 (1993)	76.4 137 (1995) 33.9 (1996)	112 260 (1997) 32.0 (2002)	104 204 (1997) 30.9 (2002)	58.3 162 (1997) 16.9 (1992)
SUMMAF	RY STATIST	TICS		FOR 2003 C	CALENDAR '	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 199	92 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE 50 PERCE	MEAN ANNUAL N ANNUAL N DAILY ME DAILY ME	MEAN EAN AN LY MINIMU! LOW FAGE AC-FT) DS DS	М	38,08 12:	2.6 2 Apr 8.4 Sep 9.1 Sep 0 8	25	4,15 40,49 12 2	55.8 37 Aug 8.1 May 9.3 Oct 50 Aug 7.31 Aug	7 18 1 7 3 18	a5,7 1 40,4	4.0 7.2 J 750 512.12	1997 2002 Jul 29, 1997 Jul 4, 1996 un 28, 1996 Jul 29, 1997 Jul 29, 1997

From rating curve extended above 500 ft<sup>3</sup>/s.
 Maximum gage height, 13.18 ft, Jul 31, 1999, backwater from construction, site and datum then in use.

#### 06714800 LEAVENWORTH CREEK AT MOUTH NEAR GEORGETOWN, CO

 $LOCATION.--Lat~39^{\circ}41^{\circ}14^{\circ}, long~105^{\circ}41^{\circ}59^{\circ}, in~NE^{1}_{4}SW^{1}_{2} sec. 20, T.4~S., R.74~W., Clear~Creek~County, Hydrologic~Unit~10190004, on left bank~400~ft~upstream~from~confluence~of~South~Clear~Creek, 0.3~mi~south~of~Georgetown~Reservoir, and 1.3~mi~south~of~Georgetown.$ 

DRAINAGE AREA.--12.0 mi<sup>2</sup>.

PERIOD OF RECORD.—October 1994 to September 2000. October 2000 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06714800

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,280 ft above NGVD of 1929, from topographic map.

REMARKS.—Records fair except for estimated daily discharges, which are poor. Vidler Tunnel (transmountain diversion) imports water from Peru Creek. There is seasonal diversion into Green Lake.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 168 ft<sup>3</sup>/s, July 12, 1995, gage height, 4.79 ft; minimum daily, 1.2 ft<sup>3</sup>/s, Feb. 12, 1995.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 39 ft<sup>3</sup>/s, June 7, gage height, 4.18 ft; minimum daily, 1.8 ft<sup>3</sup>/s, Apr. 8.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4	7.1 8.2 8.7 8.2	  	  	  	  	e2.3 e2.3 e2.3	e2.7 e2.8 e2.8 e2.3	3.9 4.3 6.6 9.0	18 19 22 23	19 18 17 16	9.6 9.7 9.6 9.1	5.0 4.8 4.5 5.0
5	7.7					e2.3	e2.4	12	25	16	9.1	6.0
6 7	7.0 6.7					e2.2 e2.2	e2.5 e2.1	14 14	28 31	15 13	8.6 8.3	5.5 5.2
8	6.3					e2.2	e1.8	13	30	12	7.9	4.7
9	6.0					e2.2	e2.0	14	31	12	7.5	4.7
10	5.9					e2.2	e2.0	15	30	11	7.2	4.9
11	6.2					e2.2	e2.3	16	27	11	7.0	5.5
12 13	5.5					e2.2	e2.1	14	24	10 10	6.9	4.9
13 14	5.6 5.8					e2.2 e2.2	e1.9 e2.1	11 11	23 24	10 11	6.8 7.0	4.7 4.7
15	5.6					e2.2	2.6	11	25	14	6.6	4.7
16 17	5.9 5.8					e2.2 e2.2	3.0 3.7	12 13	25 25	15 17	6.4 6.8	4.6 4.7
18	5.7					e2.2	3.7	14	26	16	8.9	4.5
19	5.6					e2.3	2.9	18	23	14	11	4.7
20	5.4					e2.4	2.9	19	22	13	9.1	5.0
21	5.4					e2.5	2.8	19	23	12	8.0	6.8
22	5.1					e2.6	2.7	19	20	13	7.4	7.3
23	5.1					e2.7	2.3	18	18	14	7.0	7.0
24	5.1					e2.9	2.8	18	18	14	6.4	7.4
25	5.1					e2.7	2.7	19	19	12	6.3	8.2
26	5.9					e2.8	2.9	21	19	11	6.1	8.7
27	5.3					e2.7	4.0	20	19	11	6.2	7.7
28	5.3					e2.3	4.4	21	20	11	6.2	7.3
29	4.6					e2.3	4.1	22	19	11	5.7	7.3
30 31	4.3 4.4					e2.2 e2.5	3.9	18 18	22	10 9.9	5.4 4.9	7.8
TOTAL	184.5					72.9	83.3	457.8	698	408.9	232.7	174.0
MEAN MAX	5.95 8.7					2.35 2.9	2.78 4.4	14.8 22	23.3 31	13.2 19	7.51 11	5.80 8.7
MIN	4.3					2.9	1.8	3.9	18	9.9	4.9	4.5
AC-FT	366					145	165	908	1,380	811	462	345

e Estimated.

#### 394308105413800 CLEAR CREEK ABOVE GEORGETOWN LAKE NEAR GEORGETOWN, CO

 $LOCATION.--Lat~39^{\circ}43'08", long~105^{\circ}41'38", in~SW^{1}/_{4}NE^{1}/_{4}, sec. 8, T.4~S., R.74~W., Clear~Creek~County, \\ Hydrologic~Unit~10190004, on~left~bank~300~ft~upstream~from~Georgetown~Lake, and~1.0~mi~north~of~Georgetown.$ 

DRAINAGE AREA.--80.0 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1997 to September 1999, October 1999 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=394308105413800

GAGE.--Water-stage recorder. Elevation of gage is 8,460 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 975 ft<sup>3</sup>/s, May 31, 2003, gage height 6.49 ft; minimum daily, 6.4 ft<sup>3</sup>/s, Mar. 17, 2004.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 272 ft<sup>3</sup>/s, June 7, gage height, 4.31 ft; minimum daily, 6.4 ft<sup>3</sup>/s, Mar. 17.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	47 53 57 52 50	24 23 24 17	  	   	  	e14 e14 e13 e13 e13	21 22 20 20 25	27 28 35 48 63	100 105 120 134 145	142 131 122 115 110	65 68 67 62 62	34 30 31 31 35
6 7 8 9 10	47 46 43 38 35	20 21 21 21 23	  	   	  	e12 13 12 13 13	25 28 28 28 22	77 86 87 86 96	168 190 196 208 202	107 102 99 95 92	60 57 54 52 50	36 35 32 28 29
11 12 13 14 15	35 31 31 26 28	22 20 22 23 21	  	   	  	12 12 12 10 8.1	24 23 24 25 26	102 96 80 70 67	171 153 148 159 157	88 86 84 85 104	49 49 47 46 45	32 29 30 27 27
16 17 18 19 20	28 29 28 27 26	19 20 22 20 20	  	   	  	6.8 6.4 8.3 11	27 31 32 25 25	69 72 79 101 124	159 157 162 152 150	114 125 115 103 98	44 44 48 54 53	24 22 22 23 23
21 22 23 24 25	32 33 31 25 19	19 18 e17 e22 e24	   	   	  	20 20 22 21 23	24 22 23 22 23	132 134 126 124 120	150 134 123 121 122	93 91 98 96 83	46 44 46 44 44	28 27 25 26 30
26 27 28 29 30 31	19 24 26 27 25 19	22 e22 e23 19 17	   	   	   	23 22 17 22 19 20	27 33 31 31 29	117 118 126 130 109 102	127 132 141 136 152	79 75 76 74 71 69	41 42 41 39 37 35	31 28 27 27 30
TOTAL MEAN MAX MIN AC-FT	1,037 33.5 57 19 2,060	623 20.8 24 17 1,240	   	   	  	458.6 14.8 23 6.4 910	766 25.5 33 20 1,520	2,831 91.3 134 27 5,620	4,474 149 208 100 8,870	3,022 97.5 142 69 5,990	1,535 49.5 68 35 3,040	859 28.6 36 22 1,700

e Estimated.

#### 06715000 CLEAR CREEK ABOVE WEST FORK CLEAR CREEK NEAR EMPIRE, CO

 $LOCATION.--Lat~39^{\circ}45'07'', long~105^{\circ}39'41'', in~NE^{1}_{\sqrt{4}}NW^{1}_{\sqrt{4}}~sec.34, T.3~S., R.74~W., Clear~Creek~County, Hydrologic~Unit~10190004, on left bank, 1.1~mi~west~of~exit~232~on~I-70, 1.3~mi~southeast~of~Empire, and 2.1~mi~west~of~Lawson.$ 

DRAINAGE AREA.--86.1 mi<sup>2</sup>.

PERIOD OF RECORD.—October 1994 to September 2000. October 2000 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06715000

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,280 ft above NGVD of 1929, from topographic map.

REMARKS .-- No estimated daily discharges. Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1030 ft<sup>3</sup>/s, June 17, 1995 and May 31, 2003, gage height, 6.63 ft and 6.53 ft respectively; minimum daily, 6.6 ft<sup>3</sup>/s (estimated), March 2-13, 2003.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 232 ft<sup>3</sup>/s, June 9, gage height, 4.79 ft; minimum daily, 12 ft<sup>3</sup>/s, Mar. 16-17.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45					16	22	33	89	146	63	33
2	50					16	26	33	92	133	63	30
3	56					16	27	37	105	129	64	30
4	52					16	23	50	124	116	60	29
5	49					16	28	61	134	109	58	36
6	47					14	30	74	154	103	55	35
7	45					15	32	82	175	98	56	35
8	44					15	30	88	189	96	53	32
9	40					15	33	80	190	92	51	29
10	37					16	27	88	201	89	49	28
11	37					15	27	97	170	89	47	31
12	33					16	26	98	156	84	47	29
13	34					16	27	81	145	81	47	29
14	30					15	27	68	155	82	45	27
15	30					15	28	65	156	98	43	26
16	28					12	29	66	156	110	42	26
17	30					12	31	70	155	134	42	22
18	30					13	34	71	158	118	44	22
19	29					15	28	88	149	108	55	22
20	28					14	29	117	148	96	53	23
21	32					19	26	129	150	92	44	28
22	36					22	28	136	136	89	44	31
23	33					23	29	123	122	94	44	26
24	29					22	28	120	118	99	41	27
25	23					23	28	114	123	82	41	31
26	21					24	29	108	129	77	39	31
27	28					25	39	107	132	73	40	30
28	28					20	32	115	148	72	39	27
29	29					18	36	132	135	74	38	28
30	28					20	36	104	157	62	36	32
31	25					21		91		65	35	
TOTAL	1,086					535	875	2,726	4,351	2,990	1,478	865
MEAN	35.0					17.3	29.2	87.9	145	96.5	47.7	28.8
MAX	56					25	39	136	201	146	64	36
MIN	21					12	22	33	89	62	35	22
AC-FT	2,150					1,060	1,740	5,410	8,630	5,930	2,930	1,720

#### 06716100 WEST FORK CLEAR CREEK ABOVE MOUTH NEAR EMPIRE, CO

 $LOCATION.--Lat~39^\circ 45'32", long~105^\circ 39'34", in~NE^{1}_{4}SW^{1}_{4}~sec. 27,~T.3~S.,~R.74~W.,~Clear~Creek~County,~Hydrologic~Unit~10190004, on~left~bank,~75~ft~downstream~from~frontage~road~bridge~and~1.2~mi~east~of~Empire.$ 

DRAINAGE AREA.--57.6 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1994 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=06716100

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,235 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transbasin diversions.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004	
1       38       22       e16       e16       e12       e14       e14       25       99       106       59         2       37       21       e15       e16       e11       e14       e17       25       95       100       60         3       39       22       e15       e17       e12       e15       e18       27       100       99       58         4       38       19       e14       e15       e12       e15       e15       34       113       95       55         5       38       20       e12       e12       e13       e14       e17       42       126       93       55         6       36       21       e14       e11       e14       e14       e17       42       126       93       55         7       35       19       e12       e12       e14       e14       12       67       161       88       54         8       36       19       e14       e13       e14       e14       11       78       169       87       50         9       35       18       e13       e16       e14 <td></td>	
2 37 21 e15 e16 e11 e14 e17 25 95 100 60 3 39 22 e15 e17 e12 e15 e15 e15 e15 34 113 95 55 5 38 19 e14 e15 e12 e13 e14 e17 42 126 93 55 5 38 20 e12 e12 e13 e14 e14 13 54 142 92 55 7 35 19 e12 e12 e13 e14 e14 12 67 161 88 54 8 36 19 e14 e13 e14 e14 11 78 169 87 50 9 35 18 e13 e16 e14 e14 e14 11 78 169 87 50 9 35 18 e13 e16 e14 e14 e14 11 78 169 87 50 9 35 18 e13 e16 e14 e14 e14 19 92 e189 83 43 11 36 22 e19 e15 e17 e15 e15 12 92 e189 83 43 11 36 22 e19 e15 e15 e15 e14 14 98 174 80 45 12 35 19 e16 e15 e15 e15 e15 13 97 156 78 47 13 33 19 e19 e16 e15 e15 e15 e14 11 93 147 76 45 14 32 20 e20 e16 e15 e15 e13 12 86 149 77 43 15 32 e19 e17 e16 e15 e15 e13 12 86 149 77 43 16 31 e16 e15 e15 e15 e15 12 81 150 85 42 16 31 e16 e15 e15 e15 e15 12 81 150 85 42 16 31 e16 e15 e15 e15 e15 e13 12 78 150 90 39 17 31 e20 e20 e20 e14 e15 e15 e13 15 75 148 92 41 19 29 e20 e15 e11 e15 e15 e15 e15 16 87 140 88 48	SEP
7 35 19 e12 e12 e14 e14 12 67 161 88 54 8 36 19 e14 e13 e14 e14 11 78 169 87 50 9 35 18 e13 e16 e14 e14 13 83 187 85 45 10 34 22 e15 e17 e15 e15 12 92 e189 83 43  11 36 22 e19 e15 e15 e15 e15 12 92 e189 83 43  11 36 35 19 e16 e15 e15 e15 13 97 156 78 47 13 33 19 e19 e16 e15 e15 e14 11 93 147 76 45 14 32 20 e20 e16 e15 e15 e13 12 86 149 77 43 15 32 e19 e17 e16 e15 e15 e15 12 81 150 85 42  16 31 e16 e15 e15 e15 e15 e13 12 78 150 85 42  16 31 e16 e15 e15 e15 e15 e13 12 78 150 90 39 17 31 e20 e20 e14 e15 e15 e13 15 75 146 95 37 18 31 e17 e16 e12 e15 e13 15 75 148 92 41 19 29 e20 e15 e11 e15 e15 e15 e15 16 87 140 88 48	36 35 33 33 36
12     35     19     e16     e15     e15     e15     13     97     156     78     47       13     33     19     e19     e16     e15     e14     11     93     147     76     45       14     32     20     e20     e16     e15     e13     12     86     149     77     43       15     32     e19     e17     e16     e15     e15     12     81     150     85     42       16     31     e16     e15     e15     e15     e13     12     78     150     90     39       17     31     e20     e20     e14     e15     e12     13     75     146     95     37       18     31     e17     e16     e12     e15     e13     15     75     148     92     41       19     29     e20     e15     e11     e15     e15     e15     16     87     140     88     48	34 32 28 27 26
17 31 e20 e20 e14 e15 e12 13 75 146 95 37 18 31 e17 e16 e12 e15 e13 15 75 148 92 41 19 29 e20 e15 e11 e15 e15 16 87 140 88 48	28 26 24 21 20
20 29 e16 e15 e13 e15 e14 20 102 135 88 47	22 22 23 23 24
21     28     e17     e15     e14     e15     e16     20     115     138     83     40       22     26     e15     e17     e14     e15     e17     21     122     123     79     40       23     22     e11     e14     e15     e15     e18     21     122     108     84     39       24     22     e17     e15     e12     e14     e19     21     122     103     86     36       25     19     e20     e15     e12     e15     e18     21     118     104     76     35	29 29 24 25 27
26     19     e19     e15     e12     e14     e19     17     115     105     73     34       27     25     e17     e13     e12     e14     e19     15     113     107     71     35       28     22     e19     e13     e13     e14     e16     18     119     111     74     38       29     19     e18     e14     e13     e13     e14     18     123     104     72     35       30     18     e16     e15     e12      e14     22     113     113     64     35       31     17      e15     e12      e14      106      62     36	27 25 23 24 27
TOTAL         922         560         473         429         410         465         474         2,687         3,992         2,601         1,371           MEAN         29.7         18.7         15.3         13.8         14.1         15.0         15.8         86.7         133         83.9         44.2           MAX         39         22         20         17         15         19         22         123         189         106         60           MIN         17         11         12         11         11         12         11         25         95         62         34           AC-FT         1,830         1,110         938         851         813         922         940         5,330         7,920         5,160         2,720	813 27.1 36 20 1,610
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2004, BY WATER YEAR (WY)	12.2
MEAN     30.2     22.6     18.2     15.6     14.9     15.5     22.7     127     305     179     81.1       MAX     41.5     30.1     26.1     23.5     20.1     20.0     35.2     199     504     395     199       (WY)     (2000)     (2001)     (1999)     (2000)     (2002)     (2000)     (2000)     (1997)     (1995)     (1999)       MIN     21.3     15.8     10.4     9.92     9.91     12.7     15.3     47.2     110     44.5     32.2       (WY)     (2003)     (2003)     (1995)     (1995)     (1998)     (1995)     (1995)     (2002)     (2002)     (2002)	43.2 66.5 (1999) 20.1 (2002)
SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1995 -	5 - 2004
LOWEST DAILY MEAN         e8.4         Feb 19         e11         Nov 23         e8.4         Feb 19           ANNUAL SEVEN-DAY MINIMUM         e8.7         Feb 16         e12         Jan 29         e8.7         Feb 19           MAXIMUM PEAK FLOW         203         Jun 9         855         May 3	1999 2002 In 18, 1995 bb 19, 2003 bb 16, 2003 ay 31, 2003 ay 31, 2003

a Maximum gage height, 6.67 ft, Jun 18, 1995, same site and datum.

#### 06716500 CLEAR CREEK NEAR LAWSON, CO

 $LOCATION.--Lat~39^{\circ}45'57'', long~105^{\circ}37'32'', in~NW^{1}_{/4}NW^{1}_{/4}~sec.25, T.3~S., R.74~W., Clear~Creek~County, Hydrologic~Unit~10190004, at east edge of Lawson, on left bank, 30~ft downstream from private bridge, and 2.0 mi downstream from West Fork Clear~Creek.$ 

DRAINAGE AREA.--147 mi<sup>2</sup>.

PERIOD OF RECORD.--March 1946 to September 1986; October 1994 to current year. Records prior to 1959 include inflow from August P. Gumlick Tunnel (formerly Jones Pass Tunnel). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06716500

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,080 ft above NGVD of 1929, from topographic map. Mar. 29, 1946 to Sept. 30, 1967, at site 1.5 mi upstream at different datum.

REMARKS.—Records good except for estimated daily discharges, which are poor. Natural flow affected by minor transmountain diversion from Colorado River Basin through Berthoud Pass Ditch (see elsewhere in this report).

					YEAR OCT		ET PER SECC TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	79 79 87 82 81	41 41 43 37 32	31 30 29 27 27	e29 e30 31 e30 e27	26 25 e25 26 e27	26 27 27 27 27 26	29 36 39 35 40	50 49 55 71 92	193 191 208 242 262	258 237 229 210 202	118 119 119 110 108	65 62 60 59 68
6 7 8 9 10	76 72 71 64 60	37 36 36 35 37	29 27 29 28 32	e25 e25 e27 e29 e30	e28 e29 e29 e29 e30	25 25 26 26 27	41 41 39 43 37	121 139 158 154 172	301 334 361 382 400	196 184 181 173 168	107 104 100 95 93	65 64 58 54 53
11 12 13 14 15	63 57 57 51 51	39 31 35 36 34	35 29 e33 35 29	29 29 29 29 29 30	e30 e30 e30 e30 e30	26 26 26 25 26	38 38 36 37 38	190 192 167 145 137	346 313 295 305 309	165 157 154 154 179	93 91 89 85 83	58 54 52 48 46
16 17 18 19 20	50 50 51 47 45	30 34 30 33 31	27 35 31 30 29	28 27 e25 25 27	e30 e30 e30 31 30	22 22 23 25 25	38 40 46 41 45	135 136 137 171 213	307 303 308 292 288	196 225 210 194 183	79 77 81 98 97	48 44 45 45 46
21 22 23 24 25	47 52 47 43 38	31 27 18 33 42	28 30 27 e28 28	e27 e28 28 26 26	30 29 28 28 29	27 31 33 34 34	42 44 44 44 45	240 255 242 241 234	292 268 235 224 227	173 164 174 183 156	81 82 81 74 74	55 60 53 54 59
26 27 28 29 30 31	36 45 43 41 38 35	37 35 39 38 31	27 25 e26 e27 e27 e28	e26 e26 e27 e27 e27 26	28 28 28 27 	36 37 31 28 28 28	42 50 43 47 50	226 224 235 259 224 203	234 238 265 241 276	146 139 140 142 120 122	71 72 75 70 67 67	59 57 53 56 63
TOTAL MEAN MAX MIN AC-FT	1,738 56.1 87 35 3,450	1,039 34.6 43 18 2,060	903 29.1 35 25 1,790	855 27.6 31 25 1,700	830 28.6 31 25 1,650	855 27.6 37 22 1,700	1,228 40.9 50 29 2,440	5,267 170 259 49 10,450	8,440 281 400 191 16,740	5,514 178 258 120 10,940	2,760 89.0 119 67 5,470	1,663 55.4 68 44 3,300
MEAN MAX (WY) MIN (WY)	60.5 132 (1962) 35.6 (1957)	43.0 79.9 (1985) 26.1 (2003)	33.8 52.2 (2000) 22.8 (2003)	28.9 41.0 (1971) 17.9 (2003)	27.6 37.3 (2000) 16.8 (1955)	28.1 39.0 (2000) 17.6 (1951)	43.3 89.1 (1962) 26.3 (1964)	198 431 (1958) 83.4 (1995)	592 1,000 (1952) 175 (2002)	392 943 (1957) 70.0 (2002)	169 404 (1984) 50.8 (2002)	89.5 193 (1984) 40.8 (2002)
SUMMA	RY STATIST	TICS		FOR 2003 CA	LENDAR '	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 194	6 - 2004
LOWEST HIGHEST LOWEST ANNUAI MAXIMU MAXIMU ANNUAI 10 PERCI 50 PERCI	L MEAN I ANNUAL M I ANNUAL M I DAILY ME I DAILY ME	MEAN AN AN Y MINIMUN OW 'AGE AC-FT) DS DS	1	54,488 149 1,370 16 e17 108,100 501 49	Jun Jan Jan	24	4( 1 2 45 61,67 22	00 Jur 18 Nov 24 Mai 56 Jur 4.44 Jur 70	23 14 9	1,6 6,1 103,5	13 Fe 15 Fe 30 Ju a7.41 Ju	1984 2002 un 17, 1965 eb 20, 1955 eb 18, 1955 un 4, 1956 un 4, 1956

e Estimated.

a Site and datum then in use.

#### 06717400 CHICAGO CREEK BELOW DEVILS CANYON, NEAR IDAHO SPRINGS, CO

 $LOCATION.--Lat\ 39^{\circ}42'59", long\ 105^{\circ}34'15", in\ NW^{1}{}_{4}SW^{1}{}_{4}\ sec.9, T.4\ S., R.73\ W., Clear\ Creek\ County, Hydrologic\ Unit\ 10190004, on\ left\ bank,\ 50\ ft\ upstream\ from\ Highway\ 103\ bridge,\ 5.6\ mi\ upstream\ from\ intersection\ of\ I-70\ and\ Colorado\ Highway\ 103,\ and\ 3.2\ mi\ southwest\ of\ Idaho\ Springs.$ 

DRAINAGE AREA.--43.7 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1994 to September 1999. October 1999 to current year (seasonal records only). Records for May 14, 1996 (when gage was located 700 ft upstream) to April 10, 1998, may not be equivalent to other records because gage was moved upstream of inflow from Devils Canyon. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06717400

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,040 ft above NGVD of 1929, from topographic map. Prior to May 14, 1996, at site 150 ft downstream at different datum. May 14, 1996 to Apr. 10, 1998, at site 700 ft upstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge 275 ft<sup>3</sup>/s (estimated), June 19, 1995, peak not determined; maximum instantaneous discharge, 183 ft<sup>3</sup>/s, May 31, 2003, gage height 5.79 ft; minimum daily, 0.30 ft<sup>3</sup>/s (estimated), Nov. 13, 14, 2000.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 68 ft<sup>3</sup>/s, June 30, gage height, 5.33 ft; minimum daily, 4.0 ft<sup>3</sup>/s, Mar. 28 and 31.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	8.5 11 12 11 10	6.4 6.4 6.6 4.8 4.7	e5.5   	   	   	  	4.3 4.8 5.1 5.9	14 14 17 22 24	17 18 19 19	43 33 29 27 24	25 25 24 23 24	13 13 13 13 13
6 7 8 9 10	10 9.8 9.6 9.5 9.4	6.6 6.3 6.0 5.8 5.8	   	   	   	  	7.0 7.2 8.1 8.7 6.8	26 27 e25 25 27	20 20 20 21 21	23 21 20 19	22 20 19 19 18	13 12 12 13 13
11 12 13 14 15	9.2 8.7 9.3 7.0 9.0	5.9 5.7 5.9 5.9 5.7	   	   	   	  	7.4 7.5 8.7 9.7	28 25 22 20 21	19 18 17 16 15	18 17 16 16 19	18 17 16 15	13 12 12 12 12
16 17 18 19 20	9.3 8.9 7.3 7.1 7.3	4.9 5.9 5.7 6.3 6.0	   	   	   	  	10 11 11 10 9.3	21 21 21 23 26	17 e19 e22 19 17	26 36 35 e31 e30	15 15 16 22 19	12 11 7.0 6.6 6.5
21 22 23 24 25	7.3 7.1 7.1 6.5 6.3	e6.0 e5.9 e5.9 e5.8 e5.7	   	   	   	   5.9	8.8 8.0 7.5 8.8 8.9	27 25 22 21 21	19 19 16 15 18	30 32 e42 48 40	17 16 15 15	7.7 7.6 7.7 7.9 8.5
26 27 28 29 30 31	6.2 6.8 6.6 6.4 6.5 4.9	e5.7 e5.7 e5.6 e5.6 e5.5	   	   	   	5.6 5.3 4.0 4.3 4.3	9.9 12 13 13 14	20 19 19 22 20 18	21 22 27 24 43	37 35 33 35 29 27	14 15 15 14 14	9.2 8.1 8.1 8.4 9.9
TOTAL MEAN MAX MIN AC-FT	255.6 8.25 12 4.9 507	174.7 5.82 6.6 4.7 347	   	   	   	   	260.7 8.69 14 4.3 517	683 22.0 28 14 1,350	597 19.9 43 15 1,180	890 28.7 48 16 1,770	550 17.7 25 14 1,090	315.2 10.5 13 6.5 625

e Estimated.

#### 06718300 CLEAR CREEK ABOVE JOHNSON GULCH NEAR IDAHO SPRINGS, CO

 $LOCATION.--Lat~39^{\circ}44'47", long~105^{\circ}26'08", in~NE^{1}_{4}SW^{1}_{/4}~sec. 34,~T.3~S.,~R.72~W.,~Clear~Creek~County,~Hydrologic~Unit~10190004,~on~left~bank~150~ft~downstream~from~I-70~exit~243~bridge~over~Clear~Creek,~and~2~mi~east~of~Idaho~Springs.$ 

DRAINAGE AREA.--267 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1994 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=06718300

GAGE.--Water-stage recorder. Elevation of gage is 7,210 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges which are poor.

KEMAKK	SRecords	good except 1	for estimated	dany discharge	es which are	poor.						
					YEAR OC		ET PER SECO TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	126 130 142 133 133	78 80 84 75 66	e52 e53 e51 e50 e49	e44 e46 e47 e46 e44	e41 e40 e40 e41 e41	e39 e41 e41 e41 e39	44 55 61 56 62	83 83 88 108 134	242 239 253 285 302	369 329 318 297 285	179 182 195 177 178	e101 e101 96 98 110
6 7 8 9 10	126 123 e120 115 110	75 76 74 72 75	e49 e47 e48 e46 e48	e41 e41 e43 e44 e46	e42 e43 e43 e43 e44	e39 e39 e39 e40 e41	66 65 65 70 64	172 194 213 210 227	351 391 438 462 484	280 264 259 249 241	175 163 159 150 146	105 102 96 93 91
11 12 13 14 15	116 110 110 104 104	77 70 75 73 e70	e52 e47 e50 e51 e47	e45 e44 e44 e45 e45	e44 e44 e44 e44	40 41 42 40 41	62 65 62 65 66	248 252 224 204 192	421 370 342 349 366	241 228 221 217 259	142 146 142 137 133	98 92 89 85 85
16 17 18 19 20	102 99 99 95 93	e64 e66 e61 e64 e63	e44 e54 e51 e48 e46	e42 e41 e39 e39 e41	e44 e44 e44 e43	36 36 38 40 41	66 70 76 69 71	191 195 191 225 271	374 373 388 363 351	297 329 332 299 285	128 116 125 168 154	86 81 79 79 80
21 22 23 24 25	96 99 92 86 78	e60 e60 e52 e61 e67	e45 e48 e45 e44 e45	e41 e41 e42 e41 e39	e43 e42 e42 e42 e42	44 48 53 55 54	69 71 71 71 73	301 314 295 293 289	358 332 293 279 285	266 254 283 304 260	132 126 126 114 112	93 100 90 91 107
26 27 28 29 30 31	72 83 80 81 75 73	e63 e60 e64 e61 e52	e44 e41 e41 e41 e42 e43	e39 e40 e41 e41 e41 e41	e42 e42 e42 e40	55 57 49 43 45 46	70 79 78 79 82	276 274 279 309 274 253	300 307 346 316 392	238 229 223 224 192 195	109 117 122 114 108 107	107 103 99 99 108
TOTAL MEAN MAX MIN AC-FT	3,205 103 142 72 6,360	2,038 67.9 84 52 4,040	1,462 47.2 54 41 2,900	1,314 42.4 47 39 2,610	1,234 42.6 44 40 2,450	1,343 43.3 57 36 2,660	2,023 67.4 82 44 4,010	6,862 221 314 83 13,610	10,352 345 484 239 20,530	8,267 267 369 192 16,400	4,382 141 195 107 8,690	2,844 94.8 110 79 5,640
				OR WATER YI				, ,				
MEAN MAX (WY) MIN (WY)	100 126 (1999) 57.6 (2003)	64.3 83.6 (2000) 38.7 (2003)	48.5 62.6 (2000) 29.6 (2003)	41.5 54.6 (1996) 26.1 (2003)	39.8 54.7 (2000) 25.8 (2003)	44.7 58.8 (2000) 33.8 (2002)	73.8 106 (2000) 49.9 (1995)	338 549 (1996) 137 (2002)	785 1,325 (1995) 215 (2002)	513 1,398 (1995) 103 (2002)	255 526 (1999) 73.9 (2002)	147 213 (1999) 61.3 (2002)
SUMMAI	RY STATIST	TICS		FOR 2003 CA	ALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 199	95 - 2004
LOWEST	L MEAN FANNUAL I FANNUAL I	MEAN		76,590 210			45,32 12	24		3	205 326 79.2	1995 2002
LOWEST ANNUAL MAXIMU	F DAILY ME DAILY ME SEVEN-DA JM PEAK FI JM PEAK ST	AN AY MINIMU! LOW	М	1,600 24 25	Jun Feb Jan	28		86 Mai 89 Mai 55 Jul	: 16	ĺ	e24 F e25 J 250 J	fun 22, 1995 Feb 28, 2003 Jan 22, 2003 Jun 21, 1995 Jun 21, 1995
ANNUAL 10 PERCI 50 PERCI	RUNOFF (A ENT EXCEE ENT EXCEE ENT EXCEE	AC-FT) DS DS		151,900 702 95 26				00		148,		21, 1773

e Estimated. a Maximum gage height, 8.23 ft, Jun 17, 1995.

#### 06718550 NORTH CLEAR CREEK ABOVE MOUTH NEAR BLACKHAWK, CO

LOCATION.--Lat 39°44′56", long 105°23′57", in NE $^1$ /4SW $^1$ /4 sec.36, T.3 S., R.72 W., Clear Creek County, Hydrologic Unit 10190004, on left bank 150 ft upstream from intersection of Hwy 6 and Hwy 119 bridge over North Clear Creek, 0.2 mi above mouth, and 6.5 mi southeast of Blackhawk.

DRAINAGE AREA.--60.2 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1994 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=06718550

REVISED RECORDS .-- WDR CO-03-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,910 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES  DAY OCT NOV DEC. IAN EER MAR ARR MAY HIN HILL ALIC SER													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	3.5 3.7 4.0 4.1 3.9	e3.1 e3.4 e3.3 e3.3 e3.3	e3.0 e2.8 e2.7 e2.6 e2.6	e2.6 e2.6 e2.5 e2.4 e2.3	e2.2 e2.2 e2.2 e2.2 e2.2	e3.1 e3.1 e3.2 e3.3	6.2 6.4 7.9 7.0 8.0	13 15 16 16 18	19 18 17 16 16	24 18 17 17 16	12 11 11 9.8 10	6.7 6.7 6.6 6.6 7.3		
6 7 8 9 10	3.8 3.6 3.7 e3.4 e3.4	e3.3 e3.3 e3.5 e3.6	e2.6 e2.6 e2.5 e2.6 e2.8	e2.3 e2.3 e2.3 e2.3	e2.2 e2.2 e2.2 e2.2 e2.2	e3.5 3.6 4.0 4.3 4.5	8.6 8.6 8.8 10 9.3	22 28 29 29 29	16 15 15 23 22	16 16 15 13	11 9.7 9.7 9.4 9.1	7.0 6.6 6.4 6.0 6.0		
11 12 13 14 15	e3.4 e3.3 e3.3 e3.4	e3.6 e3.5 e3.4 e3.7 e3.6	e2.8 e2.8 e2.8 e3.0 e2.9	e2.3 e2.3 e2.2 e2.2 e2.2	e2.2 e2.1 e2.1 e2.2 e2.2	4.3 4.3 4.6 4.5 4.5	8.3 8.9 9.0 9.5 9.6	29 29 29 29 29	20 20 17 15 14	12 11 10 10	8.9 9.4 11 11	7.0 6.5 6.4 6.1 6.0		
16 17 18 19 20	e3.5 e3.5 e3.6 e3.7 e3.8	e3.4 e3.4 e3.5 e3.7	e3.0 e2.9 e2.4 e2.4 e2.6	e2.2 e2.2 e2.2 e2.2 e2.2	e2.2 e2.2 e2.5 e2.6 e2.5	4.2 4.0 4.3 4.7 5.0	9.9 10 11 10 10	28 28 26 25 25	13 15 19 18 16	22 26 23 18 18	9.7 7.0 11 18 13	6.0 5.9 5.9 5.9 5.9		
21 22 23 24 25	e3.6 e3.8 e3.8 e3.8 e3.2	e3.7 e3.5 e3.5 e3.5 e3.6	e2.5 e2.2 e2.5 e2.5 e2.5	e2.2 e2.2 e2.2 e2.3 e2.3	e2.6 e2.6 e2.7 e3.0	5.4 5.8 6.2 7.1 9.6	10 11 11 11 11	25 26 26 26 26	18 18 15 14 15	14 16 23 22 18	11 10 9.1 7.3 6.9	9.4 8.1 7.3 7.0 7.0		
26 27 28 29 30 31	e3.1 e3.5 e3.4 e3.5 e3.5 e3.2	e3.7 e3.6 e3.2 e3.0 e3.1	e2.5 e2.4 e2.4 e2.5 e2.5 e2.8	e2.2 e2.2 e2.2 e2.3 e2.3 e2.3	e2.8 e3.1 e3.0 e3.1	9.6 9.5 8.3 8.0 8.2 8.1	11 11 13 13 13	25 24 22 21 21 20	15 21 23 20 27	15 14 14 13 13 13	6.7 7.6 9.1 7.2 6.9 7.0	8.0 6.8 6.7 6.5 7.6		
TOTAL MEAN MAX MIN AC-FT	110.3 3.56 4.1 3.1 219	103.0 3.43 3.7 3.0 204	81.7 2.64 3.0 2.2 162	70.8 2.28 2.6 2.2 140	70.3 2.42 3.1 2.1 139	165.9 5.35 9.6 3.1 329	292.0 9.73 13 6.2 579	754 24.3 29 13 1,500	530 17.7 27 13 1,050	501 16.2 26 10 994	301.5 9.73 18 6.7 598	201.9 6.73 9.4 5.9 400		
							VATER YEAI	` ′						
MEAN MAX (WY) MIN (WY)	5.53 12.3 (2000) 3.08 (1995)	4.33 8.09 (2000) 2.68 (1995)	3.51 6.42 (2000) 1.68 (1995)	3.07 4.92 (2000) 1.30 (1995)	3.09 5.79 (2000) 1.38 (1995)	5.15 8.46 (2000) 2.21 (1995)	14.3 24.5 (1998) 7.60 (1995)	67.7 112 (1995) 11.1 (2002)	69.4 228 (1995) 10.8 (2002)	19.2 49.7 (1995) 6.12 (2002)	14.1 50.8 (1999) 3.30 (2002)	6.67 13.3 (1999) 3.62 (2002)		
SUMMAI	RY STATIST	TICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	)4 WATER Y	EAR	WATER	YEARS 1995	5 - 2004		
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU	. MEAN TANNUAL M ANNUAL M TDAILY ME DAILY ME.	MEAN CAN AN AY MINIMUN COW CAGE	И	139 e1	1.6 0 May 1.8 Jan 1.9 Jan	15	6	8.70 29 May e2.1 Fet e2.2 Fet 69 Ju 4.63 Ju	7 8 5 12 5 7 1 16 1 16	b′	e,a0.00 Au 0.00 Au 759 Ju	1995 2002 y 31, 1995 g 7, 2000 g 7, 2000 n 2, 1995 n 2, 1995		

20

6,310

13,080

10 PERCENT EXCEEDS

50 PERCENT EXCEEDS 90 PERCENT EXCEEDS

ANNUAL RUNOFF (AC-FT)

10,570

36

Also occurred Aug 8-12, 2000.

a Also occurred Aug 8-12, 2000. b From rating curve extended above 300 ft<sup>3</sup>/s.

#### 06719505 CLEAR CREEK AT GOLDEN, CO

 $LOCATION.--Lat~39^{\circ}45'11'', long~105^{\circ}14'05'', in~NE^{1}_{4}NW^{1}_{4}~sec. 33, T.3~S., R.70~W., Jefferson~County, Hydrologic~Unit~10190004, on left bank~100~ft~downstream~from~Los.~Highway~6~bridge~at~west~edge~of~Golden,~0.7~mi~downstream~from~headgate~of~Church~Ditch,~and~13.3~mi~downstream~from~North~Clear~Creek.$ 

PERIOD OF RECORD.--October 1974 to current year. Records for station at site 0.8 mi upstream (October 1908 to December 1909, June 1911 to September 1974) are not equivalent due to diversions by Church Ditch. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06719505

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,695 ft above NGVD of 1929, from topographic map. Prior to Sept. 12, 1980, at site 80 ft downstream. Prior to Jan. 22, 1987, at datum 2.00 ft higher, at both sites.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by minor transmountain diversions from Colorado River Basin through Berthoud Pass Ditch (see elsewhere in this report) and several small reservoirs upstream from station. Diversion by Welch Ditch 1.4 mi upstream from station and by Church Ditch 0.7 mi upstream from station of about 5,200 acres downstream from station.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES  DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	132	82	e67	e61	e55	50	60	121	234	363	163	109		
2	135	86	e67	e65	e57	54	69	122	227	316	160	105		
3	142	88	e69	e66	e57	53	85	122	241	304	171	100		
4	120	82	e67	e55	e57	55	77	141	267	286	158	100		
5	113	61	e67	e28	e57	59	80	161	285	271	155	116		
6	103	76	e68	e37	e57	51	88	194	326	267	160	112		
7	115	77	e66	e63	e59	55	85	213	359	250	143	106		
8	127	75	e65	e88	e60	56	91	235	404	240	142	98		
9	120	72	e66	e75	e60	59	98	234	414	227	132	93		
10	113	74	e68	e66	e60	62	97	246	439	219	149	91		
11	118	77	e69	e66	e60	57	84	245	401	216	157	101		
12	114	75	e69	e65	e60	57	92	242	356	204	164	94		
13	114	74	e74	e65	e60	58	84	223	335	195	160	90		
14	109	75	e73	e63	e61	55	85	205	333	191	153	86		
15	104	75	e70	e62	e61	57	89	191	346	218	149	83		
16 17 18 19 20	109 101 107 104 96	67 74 68 69 74	e68 e75 e71 e70 e70	e62 e61 e61 e59 e58	e61 e60 e60 e59	52 50 52 55 58	88 91 99 94 93	190 193 185 210 253	352 359 367 344 324	265 314 319 277 265	142 124 142 207 181	84 79 74 75 77		
21	100	68	e71	e58	e58	61	93	288	330	248	157	94		
22	105	e66	e73	e55	e57	66	99	307	320	234	140	114		
23	99	e58	e72	e59	e57	71	103	288	277	261	142	99		
24	92	e50	e70	e58	e57	74	102	285	254	319	125	92		
25	83	e49	e70	e58	e57	75	105	284	258	292	122	108		
26 27 28 29 30 31	76 85 88 88 81 80	e62 e71 e70 e73 e67	e68 e43 e17 e14 e80 e60	e58 e29 e58 e69 e59 e55	e57 e58 56 54 	74 76 68 60 63 64	100 106 111 112 118	268 263 266 297 271 247	275 303 354 303 366	238 220 208 209 179 179	115 113 116 106 104 111	112 107 105 102 104		
TOTAL	3,273	2,135	2,017	1,842	1,693	1,857	2,778	6,990	9,753	7,794	4,463	2,910		
MEAN	106	71.2	65.1	59.4	58.4	59.9	92.6	225	325	251	144	97.0		
MAX	142	88	80	88	61	76	118	307	439	363	207	116		
MIN	76	49	14	28	54	50	60	121	227	179	104	74		
AC-FT	6,490	4,230	4,000	3,650	3,360	3,680	5,510	13,860	19,350	15,460	8,850	5,770		
MEAN	86.5	63.3	50.9	45.1	43.4	44.9	78.0	320	752	446	208	126		
MAX	192	115	89.6	74.3	67.3	64.2	131	655	1,522	1,203	535	231		
(WY)	(1985)	(1985)	(2000)	(2000)	(2000)	(2000)	(2003)	(1984)	(1995)	(1995)	(1999)	(1984)		
MIN	51.5	36.8	26.6	28.0	24.5	31.2	39.0	123	195	86.7	59.3	48.2		
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(1976)	(1982)	(1981)	(2002)	(2002)	(2002)	(2002)		
SUMMAI	RY STATIST	TICS		FOR 2003 CA	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 19	75 - 2004		
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE 50 PERCE	. MEAN 「ANNUAL M 「ANNUAL M 「DAILY ME 「DAILY ME	MEAN AN AN Y MINIMUN OW 'AGE AC-FT) DS DS	М	74,465 204 1,530 e13 19 147,700 636 107 28	Jun Feb Feb	4	94,23 27 9	9 Jur 4 Dec 9 Dec 14 Ju 6.40 Ju		2,3 2,3 136,9	e12 E 19 F 370 a6.44	1995 2002 Jun 17, 1995 Jec 20, 2002 Feb 2, 2003 Jul 10, 1983 Jul 10, 1983		

e Estimated.

a Maximum gage height, 8.10 ft, Jun 21, 1995.

#### 06720500 SOUTH PLATTE RIVER AT HENDERSON, CO

LOCATION.--Lat 39°55'19", long 104°52'04", in SE 1/4 NE 1/4 sec. 34, T.1 S., R.67 W., Adams County, Hydrologic Unit 10190003, on right bank 500 ft upstream from bridge on State Highway 22, and 0.2 mi northwest of Henderson.

DRAINAGE AREA.--4,768 mi<sup>2</sup>

PERIOD OF RECORD.--May 1926 to current year. Prior to October 1933, monthly discharge only, published in WSP 1310. Statistical summary computed for 1976 to current year, subsequent to completion of Chatfield Dam. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=06720500

REVISED RECORDS.--WSP 1310: 1934-36(M). WDR C0-88-1: 1986, WDR CO-03-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 4999.12 ft above NGVD of 1929. See WSP 1710 or 1730 for history of changes prior to June 1, 1960. June 1, 1960, to May 10, 1969, water-stage recorder at site 1,200 ft upstream at datum 5.00 ft higher. May 11 to Oct. 2, 1969, nonrecording gage at site 500 ft downstream at datum 3.00 ft higher. Oct. 3, 1969 to Jan. 15, 1986, at present site, at datum 3.00 ft higher.

REMARKS.--Records good except for Oct. 15, May 21-22, June 30-July 1, July 24, which are fair, and estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, ground-water withdrawals, diversions for irrigation of about 253,000 acres, and return flow from irrigated areas.

COOPERATION .-- Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	117	198	207	167	228	407	121	782	231	479	412	244
2	116	199	213	175	199	364	123	438	255	554	476	212
3	114	222	189	180	187	368	731	282	256	358	343	252
4	110	213	188	188	180	405	257	179	246	353	381	282
5	96	158	216	185	190	677	153	148	243	335	412	438
6	e122	151	195	170	190	491	202	152	357	429	599	341
7	e127	158	190	178	193	393	305	245	481	447	645	307
8	e127	152	199	181	197	378	385	322	377	405	664	270
9	e125	158	210	198	195	360	550	295	1,030	524	498	229
10	140	187	222	178	293	320	925	311	771	570	389	205
11	136	194	206	184	350	314	709	363	534	405	981	208
12	141	196	195	181	341	296	678	841	372	444	490	203
13	141	192	191	174	338	282	393	1,490	322	391	361	197
14	140	190	196	177	340	290	291	586	337	354	344	200
15	147	180	210	177	344	290	277	393	339	307	339	224
16	145	184	196	176	344	270	206	226	352	568	319	220
17	140	190	198	174	339	252	226	178	490	1,420	298	217
18	134	191	199	175	354	247	249	161	1,130	873	1,390	203
19	133	191	195	180	351	255	264	151	1,070	800	4,490	178
20	141	194	188	196	e436	243	216	179	477	547	786	177
21	138	193	183	189	e368	256	269	208	613	350	432	621
22	136	202	188	179	e387	226	422	199	806	311	303	860
23	139	198	187	175	e371	200	1,260	e230	386	991	296	426
24	144	209	188	174	e351	203	639	e260	319	2,370	350	338
25	150	212	165	174	343	194	311	260	307	e1,520	366	333
26 27 28 29 30 31	152 158 161 159 160 187	204 209 185 181 184	164 177 170 169 172 186	181 189 195 258 254 247	341 339 329 436	190 155 158 186 172 158	259 206 195 196 478	238 213 197 199 253 226	333 530 e1,420 e675 505	e453 304 513 829 725 491	345 1,430 812 305 247 262	356 373 910 379 281
TOTAL	4,276	5,675	5,952	5,809	8,854	9,000	11,496	10,205	15,564	19,420	19,765	9,684
MEAN	138	189	192	187	305	290	383	329	519	626	638	323
MAX	187	222	222	258	436	677	1,260	1,490	1,420	2,370	4,490	910
MIN	96	151	164	167	180	155	121	148	231	304	247	177
AC-FT	8,480	11,260	11,810	11,520	17,560	17,850	22,800	20,240	30,870	38,520	39,200	19,210
STATISTI	CS OF MON		N DATA FO	R WATER YE	EARS 1976 -	- 2004, BY W	ATER YEAR	R (WY)				
MEAN	345	329	296	319	320	362	520	1,050	1,201	787	631	372
MAX	1,835	1,268	554	592	642	842	1,732	3,923	4,796	3,204	2,074	1,141
(WY)	(1985)	(1985)	(1984)	(1984)	(1984)	(1983)	(1983)	(1980)	(1995)	(1995)	(1984)	(1984)
MIN	138	173	170	155	156	118	140	316	249	197	163	157
(WY)	(2004)	(1978)	(2003)	(1977)	(1977)	(1982)	(1982)	(2002)	(2002)	(2002)	(2002)	(1977)
SUMMAR	Y STATISTI	CS		FOR 2003 CA	ALENDAR Y	/EAR	FOR 200	04 WATER YI	EAR	WATER	YEARS 19	976 - 2004
				142,086 389			125,70 34			1,3	545 379 252	1983 1981
HIGHEST LOWEST I ANNUAL MAXIMUI	DAILY MEA DAILY MEA	AN N Y MINIMUM OW		2,840 96 112	May Oct Sep	5	4,49 9 11 9,05	96 Oct 15 Oct	t 5 t 1 ; 19	b6,5	500 c27 69	Jun 9, 1995 Apr 7, 1977 Mar 13, 1982 Jun 27, 1983 Jun 27, 1983
ANNUAL 10 PERCEI 50 PERCEI	RUNOFF (A NT EXCEED NT EXCEED NT EXCEED	C-FT) S S		281,800 863 261 143			249,30 61 24 15	00 15 16	•	[3		,

Estimated

Estimated.

Average discharge for 48 years (water years 1927-74), 366 ft<sup>3</sup>/s; 265,200 acre-ft/yr, prior to completion of Chatfield Dam.

Maximum daily discharge for period of record, 13,200 ft<sup>3</sup>/s, May 7, 1973.

Minimum daily discharge for period of record, 4.4 ft<sup>3</sup>/s, Apr 1, 1950.

Maximum discharge and stage for period of record, 33,000 ft<sup>3</sup>/s, May 6, 1973, gage height, 11.67 ft, from rating curve extended above 7,200 ft<sup>3</sup>/s, partly on basis of flow-over-road measurement of peak flow; maximum gage height, 12.93 ft, Jun 17, 1965, site and datum then in use.

Maximum gage height for statistical period, 9.98 ft, Aug 19, 2004.

#### 06720820 BIG DRY CREEK AT WESTMINSTER, CO

LOCATION.--Lat 39°54'20", long 105°02'04", in NE $^1$ / $_4$ SE $^1$ / $_4$ sec.6, T.2 S., R.68 W., Adams County, Hydrologic Unit 10190003, on left bank 0.75 mi upstream from bridge on 120th Ave., and 5.2 mi downstream from outlet of Standley Lake.

DRAINAGE AREA.--43.8 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1987 to September 1995, November 1996 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06720820

REVISED RECORDS.--WDR CO-91-1: Drainage area.

GAGE.--Water-stage recorder and concrete and steel v-notched control. Elevation of gage is 5,215 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow affected by storage diversions, ground-water withdrawals and diversions for irrigation and return flow from irrigated areas.

DISCHARGE CHRIC FEET DED SECOND

					R YEAR OC		EET PER SECO 3 TO SEPTEN VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	3.8	2.1	1.2	3.5	3.7	2.5	17	4.1	11	16	e70
2	2.9	3.7	2.8	1.1	3.1	2.4	4.1	5.4	1.2	3.2	16	e45
3	e2.8	3.5	2.7	1.2	2.4	1.9	23	2.8	1.1	2.1	14	e45
4	e2.7	2.8	2.6	1.3	2.3	1.9	34	2.1	0.99	8.6	12	e49
5	e2.7	2.9	5.6	1.0	3.1	23	8.1	2.0	1.0	17	13	e80
6	e2.3	3.4	3.7	0.88	3.0	6.6	2.4	1.5	0.76	12	13	e63
7	e2.2	2.9	2.0	1.4	3.0	3.9	2.6	1.4	0.86	12	13	e50
8	e2.1	2.9	2.3	2.3	2.5	2.2	7.5	1.3	1.3	12	12	e40
9	e1.8	2.9	4.7	2.3	1.7	1.6	24	1.6	15	12	11	e37
10	e1.0	1.8	3.8	1.5	1.9	1.4	45	1.3	6.5	12	22	e34
11	e1.0	2.4	2.2	1.3	1.9	1.4	17	1.1	5.4	11	42	e34
12	e0.96	2.5	1.9	1.2	1.7	1.2	19	35	2.4	11	12	e33
13	e0.52	2.8	1.7	0.93	1.8	1.2	6.2	59	3.0	9.6	4.8	e37
14	e0.87	2.7	1.8	1.0	1.9	1.2	3.2	23	17	9.1	4.0	e27
15	e0.60	2.9	2.0	1.0	2.9	1.2	2.4	5.3	15	9.8	2.5	e23
16	e2.0	2.7	2.1	0.94	2.9	1.5	3.0	3.1	18	57	2.2	e25
17	e2.1	2.5	1.6	0.92	3.0	1.1	1.9	3.1	22	74	2.3	e28
18	e3.3	2.4	1.5	0.90	3.2	0.47	1.3	2.3	55	14	55	e30
19	e3.2	2.4	1.6	0.85	2.4	1.3	1.1	2.4	10	5.4	156	e31
20	e4.5	2.4	1.5	1.7	8.5	1.4	1.8	3.7	4.7	3.2	13	e29
21	e3.9	2.4	1.6	1.7	4.3	1.3	4.7	2.3	40	2.7	18	e47
22	0.51	2.3	1.6	e3.3	3.7	0.95	28	4.5	14	2.8	16	e151
23	0.68	2.6	1.4	e2.7	7.4	0.52	54	1.8	4.5	312	15	e37
24	2.2	3.1	1.2	e2.5	4.3	1.4	17	1.6	2.7	145	15	e19
25	2.9	4.1	1.3	e2.6	2.3	1.6	9.4	3.3	4.8	22	18	e15
26 27 28 29 30 31	8.8 2.9 2.2 2.2 2.9 4.3	2.7 2.8 3.1 3.0 2.9	1.3 1.3 1.3 1.3 1.8 1.2	e2.1 e1.9 e1.6 1.7 1.7 2.1	2.0 2.0 2.0 5.0	1.6 1.7 2.3 3.0 2.7 4.7	6.4 20 20 13 30	18 55 13 6.3 6.6 6.6	15 15 36 17 37	7.6 5.8 141 53 13	22 e42 e30 e30 e93 e82	e17 e11 e42 e11 14
TOTAL MEAN MAX MIN AC-FT	76.54 2.47 8.8 0.51 152	85.3 2.84 4.1 1.8 169	65.5 2.11 5.6 1.2 130	48.82 1.57 3.3 0.85 97	89.7 3.09 8.5 1.7 178	82.34 2.66 23 0.47 163	412.6 13.8 54 1.1 818 WATER YEA	293.4 9.46 59 1.1 582	371.31 12.4 55 0.76 736	1,027.9 33.2 312 2.1 2,040	816.8 26.3 156 2.2 1,620	1,174 39.1 151 11 2,330
MEAN	4.53	2.84	1.83	1.65	2.07	5.56	11.0	26.9	46.6	34.0	31.0	19.9
MAX	12.0	4.80	3.71	3.16	3.85	19.7	34.8	66.4	82.4	79.8	49.6	47.9
(WY)	(2000)	(2001)	(1998)	(1994)	(1993)	(2003)	(1998)	(2000)	(1999)	(1995)	(1999)	(1999)
MIN	1.55	1.33	0.88	0.76	1.00	1.30	1.52	9.46	5.32	3.60	5.17	2.64
(WY)	(1989)	(1989)	(1999)	(1995)	(1988)	(1989)	(1989)	(2004)	(2002)	(2003)	(2002)	(2002)
SUMMAF	RY STATIST	ICS		FOR 2003 C	CALENDAR '	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 198	7 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE 50 PERCE	MEAN ANNUAL MANNUAL MODAILY MEA	IEAN AN AN Y MINIMUN OW AGE AC-FT) OS OS	1	9,04 4	2.5 4 Aug 0.51 Oct 0.96 Oct	22	3 Not determin 9,0	0.47 Ma 0.93 Jai ed 6.80 Ju	1 23 r 18 n 13		0.16 Ja 0.37 Ja 574 J a5.65 J	1999 2002 21 23, 2004 In 12, 1995 In 6, 1995 In 13, 2001 In 13, 2001

e Estimated.

a Maximum gage height, 6.80 ft, July 23, 2004.

#### 06720990 BIG DRY CREEK AT MOUTH NEAR FORT LUPTON, CO

 $LOCATION.--Lat\ 40^{\circ}04'09", long\ 104^{\circ}49'52", in\ NE^{1}_{4}SE^{1}_{4}\ sec.12, T.1\ N., R.67\ W., Weld\ County, Hydrologic\ Unit\ 10190003, on\ right\ bank\ 1.0\ mi\ west\ of\ State\ Highway\ 52,\ 1.2\ mi\ southwest\ of\ Ft.\ Lupton.$ 

DRAINAGE AREA.--107 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1991 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06720990

 $GAGE.--Water-stage\ recorder.\ Elevation\ of\ gage\ is\ 4,900\ ft\ above\ NGVD\ of\ 1929,\ from\ topographic\ map.$ 

REMARKS.—Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, diversions for irrigation, and return flow from irrigated areas.

					YEAR OC		EET PER SECO 33 TO SEPTEM VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	26 25 24 23 23	85 86 83 54 52	25 24 24 24 24	23 24 24 24 24 e30	19 20 19 19	21 20 18 18 22	71 59 94 74 66	185 100 61 35 45	47 33 34 31 42	22 26 30 26 38	17 31 34 28 44	77 55 53 55 87
6 7 8 9 10	21 20 17 16 15	47 43 41 49 43	26 26 26 26 26	e31 e32 e33 e37 e34	19 18 18 20 19	38 25 22 20 19	50 50 57 84 143	38 29 25 23 22	49 55 37 16 32	36 24 19 31 50	32 40 42 40 35	72 62 57 52 49
11 12 13 14 15	15 14 14 14 13	31 29 29 43 63	e27 e28 e27 21 23	e31 e28 26 25 25	18 e18 e18 e18	18 18 18 18 19	138 96 72 46 50	22 31 128 100 38	40 33 34 44 38	56 66 60 48 36	33 e25 e24 e24 e25	47 46 49 40 37
16 17 18 19 20	17 19 18 21 23	86 54 22 22 22	21 22 23 23 23	24 25 25 25 25 26	19 19 19 20 19	18 18 17 17 16	99 103 117 140 113	27 30 50 32 29	28 31 64 76 52	26 91 20 21 11	e25 e26 e100 e170 e60	39 41 46 46 45
21 22 23 24 25	28 39 45 52 62	22 23 e59 e109 e108	24 23 23 23 23 23	26 26 25 25 25 25	21 20 20 21 19	15 20 87 134 130	90 76 173 123 58	27 28 35 34 29	54 108 31 21 43	9.2 28 66 263 268	e40 e45 e42 e39 42	68 181 48 28 24
26 27 28 29 30 31	66 57 64 71 73 71	e62 23 22 24 24	23 23 22 22 22 22 22	e24 e22 20 20 19	18 18 18 19 	122 120 98 123 107 71	39 34 42 38 85	36 43 51 58 66 61	55 59 65 18 16	31 23 37 225 59 15	41 48 41 42 103 88	22 21 135 125 64
TOTAL MEAN MAX MIN AC-FT	1,006 32.5 73 13 2,000	1,460 48.7 109 22 2,900	739 23.8 28 21 1,470	803 25.9 37 19 1,590	551 19.0 21 18 1,090	1,427 46.0 134 15 2,830	2,480 82.7 173 34 4,920 WATER YEAF	1,518 49.0 185 22 3,010	1,286 42.9 108 16 2,550	1,761.2 56.8 268 9.2 3,490	1,426 46.0 170 17 2,830	1,771 59.0 181 21 3,510
MEAN MAX (WY) MIN (WY)	37.8 64.3 (1995) 20.3 (2002)	30.0 48.7 (2004) 15.5 (2002)	23.6 35.2 (1998) 19.6 (1994)	24.7 46.0 (2001) 14.0 (1995)	22.7 34.6 (2001) 12.0 (1995)	35.0 66.7 (2003) 18.4 (1993)	57.1 82.7 (2004) 27.8 (2002)	56.7 93.8 (2001) 26.4 (1993)	51.2 117 (1995) 27.2 (2002)	49.9 111 (1995) 20.6 (2002)	41.7 75.1 (1997) 10.5 (2002)	45.3 67.0 (1993) 21.2 (2000)
SUMMA	RY STATIST	TICS		FOR 2003 CA	LENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 19	92 - 2004
LOWEST HIGHEST LOWEST ANNUAI MAXIMU MAXIMU ANNUAI 10 PERCI 50 PERCI	L MEAN I ANNUAL M I ANNUAL M I DAILY ME I DAILY ME	MEAN AN AN Y MINIMUN OW FAGE AC-FT) DS DS	1	14,642.4 40. 285 9.2 12 29,040 75 28 16	l May	4	Not determine Not determine 32,19	68 Ju 9.2 Ju 14 Oc ed	125 121 t 9		0.32 A 3.6 S 541 A 9.04 A	1995 2002 Jul 31, 1997 apr 18, 1994 ep 3, 1992 ug 6, 1997 ug 6, 1997

e Estimated.

#### 06721000 SOUTH PLATTE RIVER AT FORT LUPTON, CO

 $LOCATION.--Lat\ 40^{\circ}06'58", long\ 104^{\circ}49'05", in\ SW^{1}_{4}SE^{1}_{/4}\ sec.19,\ T.2\ N.,\ R.66\ W.,\ Weld\ County,\ Hydrologic\ Unit\ 10190003,\ on\ right\ bank\ 2\ ft\ downstream\ from\ Big\ Dry\ Creek,\ and\ 2.5\ mi\ north\ of\ Fort\ Lupton.$ 

PERIOD OF RECORD.--May to September 1906, April 1929 to September 1957, April 2003 to current year (seasonal records only). Prior to October 1933 monthly discharge only, published in WSP 1310. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06721000

REVISED RECORDS.--WDR CO-03-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,860 ft above NGVD of 1929, from topographic map. Oct. 3, 1947 to Sept. 30, 1957, water-stage recorder at site 3.9 mi upstream at different datum. See WSP 1730 for history of changes prior to Oct. 3, 1947.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow affected by transmountain diversions, storage reservoirs, ground-water withdrawals, diversions for irrigation, and return flow from irrigated areas.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,000 ft³/s, April 26, 1942, from rating curve extended above 6,700 ft³/s; maximum gage height, 7.57 ft, May 9, 1957, site and datum then in use; minimum daily, 4.4 ft³/s, October 29, 1956.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 6,440 ft<sup>3</sup>/s, Aug. 19, gage height 9.93 ft; minimum daily, 88 ft<sup>3</sup>/s, May 19 (estimated).

## DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	170	e247					105	950	159	565	310	246
2	177	254					100	615	136	471	360	208
3	182	285					691	418	176	401	302	190
4	179	310					425	232	171	315	242	222
5	175	262					219	141	147	293	287	338
6	176	238					195	128	234	351	376	308
7	176	239					283	160	423	323	450	292
8	179	235					399	246	375	286	469	245
9	177	234					494	270	738	304	416	214
10	169	248					1,040	252	792	415	306	191
11	167	259					1,000	e300	527	281	769	181
12	192	257					840	e705	409	324	446	180
13	214	256					591	e1,480	288	301	313	177
14	219	250					408	e546	289	258	252	172
15	215	239					358	e333	274	221	257	187
16	190	243					230	e168	271	208	276	184
17	174	255					190	e112	417	1,000	256	186
18	166	253					212	e100	949	799	259	160
19	166	254					233	e88	1,150	751	4,300	152
20	173	253					209	e113	606	559	1,520	146
21	181	254					202	e142	588	377	748	199
22	177	258					412	e131	1,030	293	460	852
23	181	263					1,070	e139	557	534	379	507
24	181	267					1,060	e172	394	2,510	376	345
25	173	284					513	e177	311	1,880	393	304
26	177	268					395	156	304	780	332	343
27	184	283					269	143	290	431	734	289
28	201	272					219	137	1,230	414	1,170	811
29	201	262					196	147	822	916	423	570
30	211	261					308	179	611	787	292	390
31	e242							168		572	237	
TOTAL	5,745	7,743					12,866	9,048	14,668	17,920	17,710	8,789
MEAN	185	258					429	292	489	578	571	293
MAX	242	310					1,070	1,480	1,230	2,510	4,300	852
MIN	166	234					100	88	136	208	237	146
AC-FT	11,400	15,360					25,520	17,950	29,090	35,540	35,130	17,430

e Estimated.

#### 06725450 ST. VRAIN CREEK BELOW LONGMONT, CO

 $LOCATION.--Lat~40^{\circ}09^{\circ}30^{\circ}, long~105^{\circ}00^{\circ}48^{\circ}, in~NW^{1}_{\sqrt{4}}NW^{1}_{\sqrt{4}}~sec.9, T.2~N., R.68~W., Weld~County, Hydrologic~Unit~10190005, on~right~bank~1,750~ft~upstream~from~mouth~of~Boulder~Creek, 1.8~mi~downstream~from~Spring~Gulch,~and~4.7~mi~southeast~of~Longmont.$ 

DRAINAGE AREA.--424 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1976 to September 1982, August 1984 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06725450

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,852 ft, above NGVD of 1929, from topographic map. Prior to Aug. 15, 1984, at site 150 ft downstream at same datum. Oct. 2, 1997 to Apr. 18, 2000 at site 100 ft upstream at same datum.

REMARKS.—Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, diversions for irrigation, and return flow from irrigated areas.

					YEAR OC		ET PER SECC TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	125	39	34	34	35	27	90	51	373	102	83
2	64	121	38	34	33	36	26	81	63	448	99	82
3	60	135	38	35	32	35	33	71	74	273	82	80
4	61	122	37	e35	36	39	31	66	76	210	75	71
5	63	122	37	e34	35	52	39	52	75	148	69	152
6	62	123	38	e35	35	41	48	45	62	146	74	97
7	57	119	37	e36	37	38	30	54	91	125	78	91
8	60	118	42	e38	34	37	31	50	67	97	80	98
9	64	117	42	36	35	34	50	52	109	96	80	93
10	59	118	39	35	34	42	107	52	174	87	84	97
11	61	92	43	34	35	46	61	49	86	84	111	103
12	66	44	48	34	35	45	64	108	77	79	92	105
13	63	42	47	33	37	45	46	e88	69	87	90	104
14	63	42	46	33	34	43	40	56	76	74	90	100
15	68	42	48	33	33	39	39	55	63	85	89	102
16	69	41	41	33	35	36	35	56	98	114	92	97
17	61	42	36	32	35	36	33	61	111	171	83	91
18	56	40	35	31	36	35	32	60	309	147	110	86
19	57	41	35	32	35	39	32	40	407	154	496	90
20	58	40	36	33	35	37	31	31	312	132	283	88
21	59	40	35	33	35	36	51	32	313	122	237	160
22	58	41	36	33	34	37	46	e50	302	175	200	164
23	57	41	36	33	35	39	53	49	177	497	174	115
24	56	41	36	33	34	58	37	83	126	698	110	106
25	54	41	35	32	33	75	35	113	146	408	119	106
26 27 28 29 30 31	54 54 55 53 52 94	40 39 37 38 39	33 33 33 34 35 34	e35 e37 33 33 32 33	35 34 34 37 	76 69 66 69 49 30	38 37 48 83 103	94 76 81 83 72 62	222 298 394 163 247	252 161 170 143 121 109	115 101 114 111 106 99	133 131 155 113 156
TOTAL	1,883	2,083	1,182	1,047	1,006	1,394	1,366	2,012	4,838	5,986	3,845	3,249
MEAN	60.7	69.4	38.1	33.8	34.7	45.0	45.5	64.9	161	193	124	108
MAX	94	135	48	38	37	76	107	113	407	698	496	164
MIN	52	37	33	31	32	30	26	31	51	74	69	71
AC-FT	3,730	4,130	2,340	2,080	2,000	2,760	2,710	3,990	9,600	11,870	7,630	6,440
MEAN	68.7	58.1	48.8	43.9	43.1	48.1	83.3	229	348	170	141	99.9
MAX	159	126	91.5	92.8	94.0	111	275	1,155	1,227	485	246	152
(WY)	(1985)	(1985)	(1985)	(1980)	(1980)	(1980)	(1998)	(1980)	(1995)	(1995)	(1999)	(1982)
MIN	44.8	34.5	30.8	25.7	27.4	28.9	27.5	35.8	63.3	71.0	57.9	53.7
(WY)	(2003)	(1979)	(1979)	(1978)	(2003)	(1982)	(1982)	(1977)	(1981)	(2002)	(2002)	(1977)
SUMMAI	RY STATIST	TICS		FOR 2003 CA	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 197	77 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCI 50 PERCI	L MEAN	MEAN AN AN Y MINIMUM OW CAGE AC-FT) DS DS	Л	30,921 84. 971 25 26 61,330 150 57 28	7 Jun Feb Feb	14	69 2 3 84 59,29 14	98 Ju 26 Ap 32 Jan 47 Ju 5.22 Ju	1 24 r 2 n 13 1 24 1 24	2,5 3,6 83,4	20 D 22 D 500 A 6.87 A	1995 2002 ay 30, 1995 ec 28, 1990 ec 26, 1990 pr 30, 1999 pr 30, 1999

e Estimated.

#### 06730200 BOULDER CREEK AT NORTH 75TH STREET NEAR BOULDER, CO

LOCATION.--Lat 40°03′06", long 105°10′42", in SE $^1$ /<sub>4</sub>NW $^1$ /<sub>4</sub> sec.13, T.1 N., R.70 W., Boulder County, Hydrologic Unit 10190005, on left bank, 50 ft downstream from bridge on North 75th Street, 0.2 mi downstream from Boulder feeder ditch, and 6 mi northeast of Boulder.

PERIOD OF RECORD.--October 1986 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=06730200

GAGE.--Water-stage recorder with satellite telemetry, and grouted rock control. Elevation of gage is 5,106 ft above NGVD of 1929, from topographic map. Prior to Apr. 14, 2003, gage located at site 100 ft upstream at same datum.

REMARKS.--Records good, except for estimated daily discharges, which are poor. Flow is partially regulated by Barker Reservoir, and affected by Boulder feeder ditch, Boulder sewage treatment plant, and Public Service power plant. Starting about Feb. 2003, Boulder Sewage Treatment Plant moved its wastewater discharge point to site about 300 ft downsteam from current gage location and the City of Lafayette began diversions for municipal supply upstream from gage.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	9.7 6.7 9.7 8.8	4.5 2.5 7.3 6.8 3.8	3.6 3.2 2.8 3.0 3.0	3.1 3.0 3.3 3.5 e3.4	5.0 4.8 4.4 4.5 4.6	7.1 8.8 7.7 8.8 26	24 34 61 34 34	112 104 98 98 103	49 35 55 84 106	138 98 66 46 39	6.1 15 30 19 33	8.9 20 34 40 42
6 7 8 9 10	7.2 6.6 7.9 12 11	3.6 3.4 3.4 2.9 2.7	3.0 3.4 3.7 3.9 2.8	e3.9 e8.0 22 16 13	4.9 5.1 5.1 5.0 4.9	17 14 12 8.6 10	44 37 52 101 121	113 139 136 130 124	109 104 82 131 176	55 57 44 36 31	57 54 54 62 67	37 36 33 40 45
11 12 13 14 15	9.4 9.8 10 9.3 9.7	2.9 6.1 6.8 6.8 8.9	3.0 3.3 3.3 3.8 3.8	13 11 4.1 3.7 3.5	4.7 4.9 6.2 5.0 4.4	12 15 14 14 14	79 73 59 70 76	113 137 190 166 149	133 57 39 38 61	44 71 70 63 77	66 54 49 52 53	44 48 45 45 45
16 17 18 19 20	9.6 9.8 9.0 5.2 4.5	9.2 8.6 3.1 e3.2 5.2	3.1 3.1 3.0 3.0 3.1	3.4 3.4 3.4 3.4 3.6	4.5 4.4 4.1 4.3 6.4	e14 14 17 19 28	88 96 113 99 90	116 113 e109 e89 e83	81 103 230 242 201	100 140 135 120 143	52 46 135 231 78	40 33 30 30 e26
21 22 23 24 25	4.6 6.5 8.0 7.0 5.1	3.3 2.8 2.7 2.9 3.0	3.4 3.4 3.3 3.1 3.2	5.2 7.3 3.8 3.4 3.4	4.8 4.4 4.6 4.3 4.1	30 31 34 34 40	77 109 130 74 82	e96 102 102 102 121	197 168 88 58 56	102 92 263 207 130	48 35 e14 28 59	59 73 59 43 43
26 27 28 29 30 31	4.9 e4.8 e4.6 e4.5 e4.5	3.1 3.2 3.0 3.3 4.2	3.4 3.3 5.4 3.6 3.3 3.3	3.7 3.9 3.6 3.5 4.1 4.3	4.0 3.8 4.0 5.9	43 39 36 29 16 16	74 72 70 84 120	105 85 82 92 82 60	72 131 167 139 133	93 59 35 25 17 9.7	56 43 21 14 9.5 6.5	
TOTAL MEAN MAX MIN AC-FT	236.5 7.63 12 4.1 469	133.2 4.44 9.2 2.5 264	103.6 3.34 5.4 2.8 205	177.9 5.74 22 3.0 353	137.1 4.73 6.4 3.8 272	629.0 20.3 43 7.1 1,250	2,277 75.9 130 24 4,520	3,451 111 190 60 6,850	3,325 111 242 35 6,600	2,605.7 84.1 263 9.7 5,170	1,547.1 49.9 231 6.1 3,070	40.7 73
				OR WATER Y				, ,				
MEAN MAX (WY) MIN (WY)	47.2 77.8 (1997) 7.63 (2004)	50.4 81.7 (1998) 4.44 (2004)	47.1 74.9 (1989) 3.34 (2004)	43.9 68.3 (1987) 5.74 (2004)	41.5 61.3 (1996) 4.73 (2004)	47.2 90.6 (1998) 20.3 (2004)	84.5 236 (1998) 37.4 (1989)	186 465 (1995) 97.3 (2002)	277 868 (1995) 86.0 (2002)	194 492 (1995) 57.5 (2003)	134 235 (1999) 49.9 (2004)	26.9
SUMMAF	RY STATIST	TICS		FOR 2003 C	ALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 1	987 - 2004
LOWEST		/IEAN		27,935 76 1,700	.5	30	15,84 C4	13.3	1 23	1	.02 .98 .43.3	1995 2004 May 30, 2003
LOWEST ANNUAL MAXIMU MAXIMU	DAILY ME SEVEN-DA IM PEAK FL IM PEAK ST	AN XY MINIMUN OW YAGE	Л	2 3	.5 Nov .0 Nov	2	53	2.5 Nov 3.0 Nov 32 Ju 4.04 Ju	v 2 v 22 1 23 1 23	a2,0	2.5 3.0 050 b4.97	Nov 2, 2003 Nov 22, 2003 May 30, 2003 May 30, 2003
10 PERCE 50 PERCE	RUNOFF (A ENT EXCEE ENT EXCEE ENT EXCEE	DS DS		55,410 172 28 3			c31,42			74,1	210 60 31	

a From rating curve extended above 500 ft<sup>3</sup>/s.
 b Maximum gage height, 7.85 ft, May 17, 1995, site and datum then in use.
 c Significantly affected by changes in water operations by Cities of Boulder and Lafayette that began about Feb 2003.

#### 06730400 COAL CREEK NEAR LOUISVILLE, CO

 $LOCATION.--Lat~39^{\circ}58'34'', long~105^{\circ}07'00'', in~NW^{1}/_{4}SE^{1}/_{4}~sec.9,~T.1~S.,~R.69~W.,~Boulder~County,~Hydrologic~Unit~10190005,~on~left~bank~on~upstream~side~of~County~Road~62~bridge,~and~1.1~mi~northeast~of~Louisville.$ 

DRAINAGE AREA.--32.0 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1997 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06730400

REVISED RECORDS.--WDR CO-03-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,280 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Natural flow of stream affected by diversions for irrigation, and return flow from irrigated areas.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2	1.6 1.1	0.55 0.51	0.88 0.79	0.73 0.84	0.75 0.71	0.54 0.58	0.72 0.83	3.7 3.4	0.82 0.88	2.6 2.4	0.88 0.86	1.5 1.4
3 4	1.0 0.93	0.72 0.60	0.62 0.54	0.84 0.67	0.44 0.34	0.53 0.58	1.5 0.89	3.1 2.7	0.87 0.80	2.6 2.9	1.1 0.99	1.4 1.3
5	0.89	0.47	0.45	0.38	0.30	1.1	1.1	2.6	0.88	3.1	0.79	3.2
6 7	0.81 0.72	0.42 0.43	0.56 0.71	0.35 0.57	0.46 0.70	0.58 0.65	1.2 1.1	2.5 2.4	0.84 0.78	2.8 2.4	1.1 0.84	1.2 0.70
8 9	0.63 0.65	0.41 0.47	0.67 0.53	0.75 0.64	0.64 0.53	0.78 0.82	1.5 2.9	2.4 2.3	0.91 1.1	2.5 2.2	0.82 0.78	0.61 0.41
10	0.62	0.51	0.47	0.71	0.52	0.78	3.3	2.3	1.2	2.4	2.9	0.41
11 12	0.48 0.35	1.0 1.4	0.38 0.33	0.71 0.69	0.46 0.33	0.75 0.82	1.5 1.7	2.3 5.2	2.7 2.3	2.4 2.3	2.4 1.2	0.61 0.63
13 14	0.35 0.37	1.3 1.6	0.31 0.43	0.71 0.92	0.42 0.46	0.80 0.66	1.5 1.4	2.6 1.3	1.5 1.1	2.3 2.5	0.89 0.73	0.70 0.59
15	0.32	1.5	0.54	0.95	0.55	0.59	1.4	2.0	1.1	2.5	0.67	0.47
16 17	0.32 0.38	1.3 1.0	0.43 0.53	0.95 0.94	0.59 0.55	0.52 0.55	1.5 1.6	2.4 2.6	1.6 2.2	7.0 2.8	0.56 0.55	0.48 0.54
18 19	0.46 0.55	0.75 0.95	0.50 0.42	0.85 0.89	0.70 0.74	0.66 0.74	1.5 1.4	1.9 1.4	5.0 1.3	1.5 1.3	15 13	0.56 0.76
20	0.61	1.1	0.41	1.0	0.84	0.78	1.4	1.4	1.4	1.2	2.2	1.1
21 22	0.59 0.60	1.00 0.72	0.63 0.57	1.00 0.94	0.71 0.68	0.77 0.80	1.4 11	1.2 1.6	3.6 1.2	1.2 1.6	2.7 2.5	2.9 1.2
23 24	0.61 0.60	0.48 0.58	0.34 0.27	0.95 1.1	0.75 0.58	0.82 0.88	9.8 4.2	1.6 1.5	1.7 1.2	15 8.9	2.6 2.6	0.89 1.0
25	0.43	0.62	0.33	0.99	0.59	0.93	5.9	1.4	1.0	3.5	2.5	1.2
26 27	0.32 0.34	0.60 0.47	0.35 0.24	0.89 0.90	0.52 0.52	0.80 0.69	4.0 3.4	1.2 1.1	1.4 15	2.3 1.9	2.0 2.6	1.4 3.7
28 29	0.36 0.59	0.43 0.65	0.19 0.20	0.91 0.93	0.52 0.76	0.46 0.50	3.5 2.2	1.2 1.1	2.8 9.6	2.3 2.2	2.6 2.4	4.4 1.2
30 31	0.76 0.56	0.85	0.47 0.61	0.87 0.77		0.58 0.67	6.2	0.88 0.79	4.0	1.6 1.2	2.2 1.8	1.6
TOTAL	18.90	23.39	14.70	25.34	16.66	21.71	81.54	64.07	70.78	93.4	74.76	38.06
MEAN MAX	0.61 1.6	0.78 1.6	0.47 0.88	0.82 1.1	0.57 0.84	0.70 1.1	2.72 11	2.07 5.2	2.36 15	3.01 15	2.41 15	1.27 4.4
MIN AC-FT	0.32 37	0.41 46	0.19 29	0.35 50	0.30 33	0.46 43	0.72 162	0.79 127	0.78 140	1.2 185	0.55 148	0.41 75
STATIST	ICS OF MO	NTHLY MEA	N DATA FO	OR WATER	YEARS 1997	- 2004, BY V	VATER YEAR	R (WY)				
MEAN MAX	2.29 3.85	1.97 3.42	1.66 3.23	1.41 2.45	1.31 2.44	2.53 6.17	11.0 36.1	11.5 34.9	6.35 13.2	2.79 4.25	3.92 14.5	1.99 3.10
(WY)	(1998)	(2000)	(2000)	(2000)	(2000)	(1998) 0.70	(1998)	(1999)	(1999)	(1999)	(1999)	(2000)
MIN (WY)	0.61 (2004)	0.42 (2003)	0.07 (2003)	0.07 (2003)	0.05 (2003)	(2004)	1.08 (2002)	2.03 (2002)	1.11 (2002)	0.69 (2002)	0.32 (2002)	0.53 (2003)
SUMMAI	RY STATIST	ΓICS		FOR 2003 (	CALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 1	997 - 2004
ANNUAL ANNUAL					7.57 2.38		54	13.31 1.48			4.02	
HIGHEST	Γ ANNUAL I ' ANNUAL I				2.30			1.10			8.48 a1.48	1999 2002
HIGHEST	DAILY ME	EAN			9 Apr				27	2	277	Apr 30, 1999
ANNUAL		AY MINIMUI	M		0.02 Jan 0.03 Feb				23		b0.01 0.01	Jul 31, 2002 Aug 7, 2002
	JM PEAK FI JM PEAK ST						21		n 27 n 27	ce		Apr 30, 1999 Apr 30, 1999
	L RUNOFF (. ENT EXCEE			1,72	0 6.8		1,08	30 2.7		2,9	910 7.8	
50 PERCI	ENT EXCEE ENT EXCEE	DS			0.76 0.06			0.88 0.44			2.0	
		-										

a Also occurred 2004.

b Also occurred Aug 1, 7, 10-13, 22-23, 2002.

c From rating curve extended above 150 ft<sup>3</sup>/s.

#### 06730500 BOULDER CREEK AT MOUTH NEAR LONGMONT, CO

LOCATION.--Lat 40°09'08", long 105°00'52", in NW  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec.9, T.2 N., R.68 W., Weld County, Hydrologic Unit 10190005, on left bank 0.6 mi upstream from mouth, 1.0 mi downstream from State Highway 254, and 4.8 mi southeast of Longmont.

PERIOD OF RECORD.--March 1927 to September 1949, May 1951 to September 1955, October 1978 to September 1990, October 1991 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06730500

GAGE.--Water-stage recorder. Elevation of gage is 4,860 ft above NGVD of 1929, from topographic map. Prior to June 10, 1939, at site 0.8 mi upstream at different datum. June 10, 1939 to Sept. 30, 1949, at site 1.0 mi upstream, at different datum. May 1, 1951 to Sept. 30, 1955, at site 1.4 mi upstream, at different datum.

REMARKS.—Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain, transbasin, and storage diversions, diversions for irrigation, water-treatment plants, and return flows from irrigated areas.

	C	,		Γ	DISCHARGE	, CUBIC FEI	ET PER SECO	OND				
				WATE		TOBER 2003 LY MEAN V		1BER 2004				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	4.9 5.7 6.8 6.6 6.3	5.3 11 14 18 14	13 13 13 13 13	17 16 17 e16 e16	32 34 33 34 33	35 38 37 39 47	e42 e53 e80 e51 e51	e123 e116 e106 e109 e119	e63 e46 e5.0 e105 e116	119 83 43 19 10	11 5.7 5.8 6.2 6.0	8.8 9.2 9.4 11 36
6 7 8 9 10	6.6 5.3 4.5 4.2 3.8	13 20 28 27 25	13 14 15 16 18	e16 e16 e30 e30 e22	e33 e34 e35 e35 e35	52 48 45 40 39	e57 e51 e69 e116 e139	e132 e159 e152 e142 e135	21 20 13 26 66	12 15 7.1 6.6 6.4	6.0 4.8 6.5 5.4 5.3	18 12 13 13 13
11 12 13 14 15	3.2 3.5 3.6 3.0 2.7	19 22 16 16 17	19 21 22 21 18	19 19 20 28 32	33 e34 e37 e35 32	41 37 27 23 e23	e106 e83 e73 e86 e98	e125 e155 e202 e187 e175	46 8.7 5.7 6.3 8.6	7.2 8.3 7.4 7.5 6.5	23 16 e10 e10 e12	14 14 21 22 19
16 17 18 19 20	2.6 2.4 2.5 2.4 2.3	18 18 13 13	20 19 17 17 17	31 30 30 32 32	32 32 32 33 36	e41 e38 e43 e46 e49	e111 e126 e138 e121 e106	e147 e130 e120 e108 e93	17 40 201 230 133	9.9 93 35 20 12	e9.6 e10 e21 e48 e20	22 18 18 15 14
21 22 23 24 25	2.3 2.5 2.4 2.3 2.2	13 13 15 17 16	e15 e16 17 e17 e16	33 36 34 31 31	37 35 36 35 33	e49 e55 e56 e54 e59	e96 e123 e154 e107 e97	e111 e118 e118 e118 e137	106 144 55 13 8.8	7.0 8.1 123 603 196	e14 e10 e14 11 17	35 114 74 48 40
26 27 28 29 30 31	2.1 2.1 2.0 1.9 1.7	19 15 15 14 13	e15 e16 20 19 19	33 38 33 32 32 31	32 32 31 33 	e62 e58 e54 e46 e33 e33	e86 e80 e80 e100 e139	e121 e99 e96 e108 e97 e80	12 36 249 135 190	104 69 41 50 37 21	27 27 29 16 11 8.8	39 36 196 95 77
TOTAL MEAN MAX MIN AC-FT	106.1 3.42 6.8 1.7 210	490.3 16.3 28 5.3 973	521 16.8 22 13 1,030	833 26.9 38 16 1,650	978 33.7 37 31 1,940	1,347 43.5 62 23 2,670	2,819 94.0 154 42 5,590	3,938 127 202 80 7,810	2,126.1 70.9 249 5.0 4,220	1,787.0 57.6 603 6.4 3,540	427.1 13.8 48 4.8 847	1,074.4 35.8 196 8.8 2,130
				R WATER Y				, ,				
MEAN MAX (WY) MIN (WY)	33.7 127 (1985) 0.70 (1955)	43.3 109 (1998) 0.48 (1955)	48.4 93.8 (1939) 1.16 (1940)	50.3 104 (1980) 2.94 (1935)	49.7 120 (1980) 2.75 (1935)	52.2 148 (1983) 2.58 (1935)	94.3 581 (1942) 1.15 (1954)	171 1,101 (1942) 1.06 (1955)	187 976 (1947) 1.22 (1954)	44.2 367 (1983) 1.09 (1954)	23.3 164 (1999) 0.55 (1954)	23.8 440 (1938) 0.54 (1954)
SUMMAR	Y STATIST	ICS		FOR 2003 C	ALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 19	27 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU	MEAN ANNUAL M ANNUAL M DAILY ME DAILY ME	IEAN AN AN Y MINIMUN OW 'AGE	М		.7 May .7 Oct .0 Oct	30	60	03 Ju 1.7 Oc 2.0 Oc 75 Ju 3.77 Ju	1 24 t 30 t 25 1 24 1 24	2 2,3 64,4 49,7	a0.00 I 0.00 A 10 S 6.94 S	1983 1954 Sep 3, 1938 Dec 9, 1934 Apr 11, 1935 Sep 3, 1938 Sep 3, 1938
10 PERCE 50 PERCE	NT EXCEE NT EXCEE NT EXCEE	DS DS		186 22	,		1	18 27 6.0			26 35 2.0	

e Estimated.

a No flow at times many years.
 b Site and datum then in use, from rating curve extended above 340 ft<sup>3</sup>/s, on basis of slope-area measurement of peak flow.

#### 402114105350101 BIG THOMPSON RIVER BELOW MORAINE PARK NEAR ESTES PARK, CO

LOCATION.--Lat 40°21'14", long 105°35'01", in SE  ${}^{1}\!\!/_{4}$ SW  ${}^{1}\!\!/_{4}$  sec.33, T.5 N., R.73 W., Larimer County, Hydrologic Unit 10190006, on left upstream wingwall of bridge at lower Moraine Park parking lot, in Rocky Mountain National Park, and 4.0 mi southwest of Estes Park.

DRAINAGE AREA.--39.8 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1995 to September 1997, April 2001 to current year. Hydrologic Benchmark Network water-quality site. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=402114105350101

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,005 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good, except for estimated daily discharges, which are poor. No diversion or regulation upstream from gage. Water-quality data has been collected at this site as part of the South Platte River Basin National Water-Quality Assessment Program and is available at http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=402114105350101

DISCHARGE, CUBIC FEET PER SECOND

					R YEAR OC		ET PER SECC 3 TO SEPTEM /ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	11 12 15 14 13	6.0 7.1 7.7 6.6 7.1	e6.6 e6.4 e6.3 e6.3 e6.1	e3.4 e3.4 e3.4 e3.4 e3.2	e2.7 e2.7 e2.7 e2.7 e2.7	e2.8 e2.8 e2.8 e2.9 e2.9	e18 e19 e19 e18 e22	26 25 35 60 93	87 93 143 200 205	215 173 149 130 123	64 67 70 59 56	26 25 23 24 32
6 7 8 9 10	12 11 11 11 11	8.0 7.6 7.3 7.1 e7.5	e5.9 e5.8 e6.0 e6.2 e6.2	e3.1 e3.1 e3.1 e3.1	e2.7 e2.7 e2.7 e2.7 e2.7	e3.0 e3.2 e3.6 e4.1 e4.5	e22 e22 e23 e24 e23	130 148 151 140 156	241 261 279 259 277	128 116 124 121 127	53 49 45 43 39	32 29 25 23 22
11 12 13 14 15	12 10 10 9.0 9.2	e7.8 e7.8 e7.9 e7.8 e7.7	e6.3 e6.0 e6.1 e6.2 e6.4	e3.1 e2.9 e2.9 e2.9 e2.9	e2.7 e2.7 e2.7 e2.7 e2.7	e4.4 e4.5 e5.2 e5.4 e5.5	e23 e22 e22 e22 e22 24	171 146 99 79 67	194 146 132 146 165	122 115 116 118 152	37 35 32 30 29	26 24 23 25 25
16 17 18 19 20	8.8 8.7 8.9 8.6 8.4	e7.3 e7.8 e7.4 e7.1 e7.8	e6.4 e6.3 e6.3 e6.0 e5.6	e2.9 e2.8 e2.8 e2.8 e2.8	e2.7 e2.7 e2.7 e2.7 e2.8	e5.6 e5.9 e6.3 e6.8 e7.8	23 25 32 28 25	63 65 79 124 162	174 171 235 228 202	176 148 131 120 127	28 28 32 56 51	22 20 20 19 24
21 22 23 24 25	7.7 7.0 6.9 6.5 5.8	e7.5 e7.5 e7.4 e7.2 e7.0	e5.4 e5.1 e4.8 e4.5 e4.3	e2.8 e2.8 e2.8 e2.8 e2.8	e2.8 e2.9 e2.9 e2.9 e2.8	e9.0 e11 e13 e14 e15	24 23 21 22 23	172 167 129 116 112	202 167 141 137 137	129 137 144 156 127	59 54 45 39 34	32 36 34 35 39
26 27 28 29 30 31	5.1 6.7 5.8 5.8 6.0 3.8	e7.0 e7.0 e6.8 e6.6 e6.6	e4.0 e3.8 e3.6 e3.5 e3.5 e3.5	e2.8 e2.8 e2.8 e2.8 e2.8 e2.7	e2.8 e2.8 e2.8 e2.8	e16 e14 e13 e14 e14 e16	22 27 35 33 29	111 111 136 167 123 99	158 169 163 156 204	90 82 79 76 69 68	31 42 43 34 29 28	40 37 37 36 41
TOTAL MEAN MAX MIN AC-FT	281.7 9.09 15 3.8 559	219.0 7.30 8.0 6.0 434	169.4 5.46 6.6 3.5 336	91.8 2.96 3.4 2.7 182	79.6 2.74 2.9 2.7 158	239.0 7.71 16 2.8 474	715 23.8 35 18 1,420	3,462 112 172 25 6,870	5,472 182 279 87 10,850	3,888 125 215 68 7,710	1,341 43.3 70 28 2,660	856 28.5 41 19 1,700
MEAN MAX (WY)	13.8 20.9 (1997)	9.14 12.1 (1997)	5.70 6.82 (1997)	3.46 4.68 (1997)	3.23 4.36 (1996)	4.99 7.71 (2004)	VATER YEAR 17.7 24.0 (2003)	124 162 (2003)	233 399 (1997)	100 133 (1997)	53.1 111 (1997)	29.8 61.8 (1997)
MIN (WY)	9.09 (2004)	7.30 (2004)	4.21 (2002)	2.56 (2002)	2.46 (2002)	2.26 (2002)	8.06 (2002)	53.2 (2002)	95.8 (2002)	37.9 (2002)	18.8 (2002)	12.6 (2002)
SUMMAR	Y STATIST	TCS		FOR 2003 C	'ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 19	996 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU	MEAN ANNUAL M ANNUAL M DAILY ME DAILY ME	IEAN AN AN Y MINIMUN OW 'AGE	И		7.4 8 May 2.5 Feb 2.5 Feb	23	27	79 Jui 22.7 Jai 22.7 Jai 30 Jui 5.83 Jui	1 8 1 31 1 31 1 8 1 8		e2.0 M e2.1 M 328 M 6.86 M	1997 2002 May 30, 2003 Mar 3, 2002 Mar 2, 2002 May 31, 2003 May 31, 2003
10 PERCE 50 PERCE	ENT EXCEEI ENT EXCEEI ENT EXCEEI	DS DS		180 12	)		14				154 13 2.9	

e Estimated.

#### 06738000 BIG THOMPSON RIVER AT MOUTH OF CANYON, NEAR DRAKE, CO

 $LOCATION.--Lat~40^{\circ}25^{\circ}18", long~105^{\circ}13^{\circ}34", in~SW^{1}_{/4}SW^{1}_{/4}sec.3, T.5~N., R.70~W., Larimer~County, Hydrologic~Unit~10190006, on right bank at mouth of canyon, 400~ft~upstream~from~Handy~Ditch~diversion~dam, and 6.0~mi~east~of~Drake.$ 

DRAINAGE AREA.--305 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1887 to September 1892, May 1895 to September 1903, October 1926 to September 1933 (no winter records prior to October 1932, except water years 1927-28), April 1938 to September 1949, March 1951 to current year. Monthly discharge only for some periods, published in WSP 1310. Published as Big Thompson Creek at Arkins 1887-92, Big Thompson Creek near Arkins 1901-3, and as Thompson River at mouth of canyon, near Drake 1927-30, 1938-47. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06738000

REVISED RECORDS.--WSP 1310: 1891, 1927. WSP 1730: Drainage area.

GAGE.—Water-stage recorder with satellite telemetry and concrete control. Datum of gage is 5,305.47 ft above NGVD of 1929 (levels by U.S. Bureau of Reclamation). Oct. 1, 1949 to Sept. 18, 1977, at present site, datum 8.00 ft lower, Sept. 19, 1977 to July 27, 1980, at present site, datum 7.37 ft lower. See WSP 1710 or 1730 for history of changes prior to Oct. 1, 1949.

REMARKS.—Records good except for estimated daily discharges, which are poor. Diversions upstream from station for irrigation. Diversions from Colorado River Basin to Big Thompson River Basin upstream from station through Alva B. Adams Tunnel began Aug. 10, 1947; since Apr. 15, 1953, this imported water has been diverted from Lake Estes through Olympus Tunnel bypassing this station. Part of the natural flow of the Big Thompson River has also been diverted through Olympus Tunnel since May 17, 1955, and Dille Tunnel since Apr. 20, 1959, and may be returned to the river just downstream from this station.

COOPERATION .-- Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31,200 ft<sup>3</sup>/s, July 31, 1976, gage height, 19.86 ft from floodmarks, from slope-area measurements of peak flow; no flow at times in 1976 (all flow above station diverted through Olympus and Dille Tunnels after flood of July 31, 1976), 1979-80 (all flow above station diverted through Dille Tunnel).

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 694 ft<sup>3</sup>/s, July 25, gage height, 3.87 ft; minimum daily, 25 ft<sup>3</sup>/s, Mar. 7.

				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	DAI	LY MEAN V	ALUES	10011 200 .				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	240	e27	e29	e29	e31	40	105	63	177	50	69
2	37	271	e28	e29	e28	e32	45	116	57	213	50	69
3	40	270	e28	e29	e27	e32	49	110	57	198	46	68
4	39	270	e28	e29	e29	e30	60	104	62	139	43	66
5	44	272	e28	e29	e29	28	68	110	102	77	50	118
6	44	267	e28	e29	e29	26	76	71	107	66	53	82
7	49	123	e28	e29	e28	25	88	53	155	71	52	62
8	49	35	e27	e30	e29	27	94	49	180	68	162	61
9	49	31	e29	e29	e29	28	101	55	248	64	101	61
10	50	36	e29	e29	e29	28	84	53	257	56	52	61
11	48	32	e29	e29	e29	27	67	56	273	275	54	61
12	49	34	e30	e29	e29	29	72	62	238	143	50	59
13	52	29	e29	e30	e28	29	75	55	122	46	45	95
14	51	30	e29	e30	e27	30	77	53	77	48	47	225
15	54	28	e29	e31	e27	31	76	57	82	51	57	350
16	53	28	e29	e29	e27	29	76	66	82	70	53	459
17	52	30	e29	e29	e30	28	76	76	95	94	55	489
18	52	27	e29	e31	e30	28	76	80	123	76	91	355
19	50	28	e29	e31	e30	28	73	80	164	71	181	303
20	53	30	e29	e30	e29	30	71	66	171	72	122	284
21	52	28	e29	e30	e29	31	72	118	152	64	88	292
22	49	27	e31	e31	e29	31	76	99	121	87	229	313
23	48	e29	e31	e31	e29	32	74	81	107	182	131	330
24	51	e28	e31	e31	e30	33	70	80	78	361	48	345
25	47	e29	e31	e31	e29	37	73	89	56	574	37	347
26 27 28 29 30 31	46 40 101 152 240 181	e29 e29 e30 e28 e27	e31 e31 e31 e48 e31 e30	e31 e31 e31 e31 e31	e30 e30 e31 e32	40 40 39 38 40 39	72 72 73 72 73	70 60 59 62 74 78	86 376 200 105 148	299 118 82 81 61 46	45 77 79 70 60 69	340 329 311 237 236
TOTAL	1,966	2,395	926	929	841	976	2,171	2,347	4,144	4,030	2,347	6,477
MEAN	63.4	79.8	29.9	30.0	29.0	31.5	72.4	75.7	138	130	75.7	216
MAX	240	272	48	31	32	40	101	118	376	574	229	489
MIN	37	27	27	29	27	25	40	49	56	46	37	59
AC-FT	3,900	4,750	1,840	1,840	1,670	1,940	4,310	4,660	8,220	7,990	4,660	12,850

e Estimated.

2004

CAL YR WTR YR TOTAL 31231 MEAN 85.6 MAX 994 MIN 24 AC-FT 61950 TOTAL 29549 MEAN 80.7 MAX 574 MIN 25 AC-FT 58610

#### 06741510 BIG THOMPSON RIVER AT LOVELAND, CO

 $LOCATION.--Lat\ 40^{\circ}22'43", long\ 105^{\circ}03'38", in\ SE^{1}_{4}SE^{1}_{4}\ sec. 24,\ T.5\ N.,\ R.69\ W., Larimer\ County,\ Hydrologic\ Unit\ 10190006, on\ right\ bank\ 690\ ft\ downstream\ from\ county\ road\ bridge\ C-13,\ 1.7\ mi\ south\ of\ sugar\ refinery\ in\ Loveland,\ and\ 1.9\ mi\ downstream\ from\ Farmers\ Ditch\ Diversion.$ 

DRAINAGE AREA.--535 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1979 to current year. For a complete listing of historical data available for this site see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06741510

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,906 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, diversions for irrigation, and return flow from irrigated areas.

					R YEAR OC		ET PER SECO TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	21 11 12 13 18	226 274 282 275 288	3.9 3.6 3.5 3.3 3.3	3.3 3.4 3.9 3.5 3.8	3.9 3.6 3.6 3.8 3.7	9.6 10 9.9 10 9.9	3.9 5.5 7.1 7.6 7.6	90 83 75 78 81	81 84 79 76 86	270 230 113 116 106	82 79 66 58 62	65 62 62 68 77
6 7 8 9 10	13 15 16 22 23	282 181 16 9.5 6.8	3.3 3.3 3.8 3.4 3.1	4.6 4.1 3.7 4.0 4.6	3.6 3.6 3.1 3.0 3.0	7.8 7.7 8.3 8.6 8.6	8.0 8.7 9.9 12 17	83 97 121 124 97	84 86 93 117 116	103 92 77 73 82	62 56 52 46 47	50 45 56 64 87
11 12 13 14 15	25 25 21 18 24	6.1 5.8 6.2 5.9 6.3	3.0 2.9 2.8 2.8 3.0	6.6 6.9 3.8 3.6 3.6	3.0 3.0 2.9 2.9 3.3	8.6 8.7 7.8 6.7 5.0	8.5 8.5 7.0 5.9 8.3	94 103 101 84 80	97 95 97 83 90	84 72 75 76 78	54 54 53 57 57	97 86 85 86 71
16 17 18 19 20	27 26 28 27 27	6.4 6.6 6.5 5.0 3.7	2.9 4.3 3.3 3.1 3.1	3.6 3.6 3.6 3.6 3.6	3.3 3.0 3.1 3.4 3.5	5.0 5.5 6.0 5.5 4.9	19 15 24 58 69	61 54 61 63 69	95 109 211 185 87	105 139 102 107 116	54 61 96 142 31	75 58 62 56 45
21 22 23 24 25	27 26 25 25 26	5.0 5.4 5.3 5.3 4.7	3.1 3.3 3.1 3.2 3.3	3.6 3.6 3.6 3.7	3.3 3.3 3.3 3.3 4.6	4.6 4.6 4.5 4.0	75 87 71 57 63	94 87 83 80 102	89 59 52 49 57	104 168 244 494 224	24 39 73 85 61	60 54 40 45 47
26 27 28 29 30 31	25 22 56 152 227 215	3.2 2.9 2.9 3.6 3.9	3.3 3.1 3.2 3.3 3.3 3.3	3.7 3.6 3.6 3.6 3.6 4.1	13 12 10 9.9 	4.0 4.4 3.9 3.6 4.1 4.1	66 74 79 88 100	85 77 79 80 89 87	102 219 208 93 94	54 67 77 139 138 90	49 67 57 43 44 55	34 29 40 19 49
TOTAL MEAN MAX MIN AC-FT	1,238 39.9 227 11 2,460	1,941.0 64.7 288 2.9 3,850	101.2 3.26 4.3 2.8 201	121.7 3.93 6.9 3.3 241	129.0 4.45 13 2.9 256	200.5 6.47 10 3.6 398	1,070.5 35.7 100 3.9 2,120	2,642 85.2 124 54 5,240	3,073 102 219 49 6,100	4,015 130 494 54 7,960	1,866 60.2 142 24 3,700	1,774 59.1 97 19 3,520
MEAN MAX (WY) MIN (WY)	30.5 111 (1998) 6.15 (1988)	22.3 95.8 (1985) 3.10 (2001)	12.3 51.9 (1998) 2.86 (1993)	16.1 95.5 (1998) 2.55 (1994)	15.9 129 (1998) 2.42 (1993)	12.5 61.4 (1998) 2.19 (1996)	41.9 292 (1980) 3.49 (2001)	207 2,078 (1980) 4.07 (1981)	272 1,493 (1983) 25.0 (1982)	114 418 (1995) 29.9 (1987)	74.3 153 (1981) 29.0 (1997)	37.7 83.9 (1982) 16.6 (1990)
, ,	RY STATIST	. ,	( /	, ,	CALENDAR	VEAD	, ,	04 WATER Y	, ,	, ,	YEARS 19	79 - 2004
ANNUAL ANNUAL HIGHEST LOWEST HIGHEST	TOTAL	MEAN MEAN EAN		12,456 34	5.51 4.1	18	18,17	71.9 49.6	1 24	:	71.6 321 27.0 240 M	1980 2003 Iay 1, 1980 Iay 21, 2003
ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCI 50 PERCI		AY MINIMUM LOW TAGE AC-FT) DS DS	1	24,710 87	2.4 Feb		57 36,04 10	2.9 Dec 77 Ju 3.62 Ju 40	2 10 1 24 1 24	a,l 51,	0.89 M 970 A b10.10 A	Iay 10, 1981 Apr 30, 1980 Apr 30, 1980

a From high-water mark.

b Maximum gage height, 10.48 ft, Apr 30, 1999.

#### 06746095 JOE WRIGHT CREEK ABOVE JOE WRIGHT RESERVOIR, CO

LOCATION.--Lat 40°32′24″, long 105°52′56″, in SE $^{1}_{4}$ SE $^{1}_{4}$ Sec.26, T.7 N., R.76 W., Larimer County, Hydrologic Unit 10190007, on left bank 150 ft downstream from unnamed tributary and Colorado Highway 14 culvert crossing, 1.5 mi northeast of Cameron Pass, 1.5 mi southwest of Joe Wright Dam, and 8 mi east of Gould.

DRAINAGE AREA.--3.01 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1978 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=06746095

GAGE.--Water-stage recorder. Elevation of gage is 9,990 ft above NGVD of 1929, from topographic map. Prior to Aug. 7, 1989, at datum 3.40 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

			R YEAR OC	TOBER 2003	TO SEPTEM					
NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
e1.9 e1.9 e1.9 e1.8 e1.8	e1.4 e1.4 e1.4 e1.4	e1.3 e1.3 e1.3 e1.3	e1.00 e0.99 e0.99 e0.98 e0.98	e0.85 e0.84 e0.84 e0.83 e0.83	e1.5 e1.6 e1.4 e1.5 e1.6	e2.6 e2.6 e3.0 e3.5 e4.2	e7.2 e8.2 e8.7 e16 e23	9.2 8.4 8.1 7.6	8.9 8.6 8.1 7.6 7.2	8.4 7.9 7.6 9.2 9.0
e1.7 e1.7 e1.7 e1.6	e1.4 e1.3 e1.3 e1.3 e1.3	e1.3 e1.2 e1.2 e1.2 e1.2	e0.98 e0.98 e0.97 e0.97	e0.82 e0.81 e0.81 e0.81 e0.80	e1.8 e1.8 e1.8 e2.0 e2.0	e5.0 e5.6 e5.6 e6.0 e7.2	e27 e34 e39 e42 41	7.0 6.3 5.8 5.5 5.1	6.8 6.5 6.2 5.8 5.5	7.8 7.1 6.8 6.4 7.2
e1.6 e1.5 e1.5 e1.5 e1.5	e1.3 e1.3 e1.3 e1.3 e1.3	e1.1 e1.1 e1.1 e1.1	e0.96 e0.95 e0.95 e0.93 e0.93	e0.80 e0.79 e0.79 e0.79 e0.79	e1.8 e1.8 e1.8 e1.9	e7.7 e6.7 e6.2 e6.0 e6.0	36 33 31 34 38	4.7 4.3 4.1 4.3 4.7	5.4 5.6 5.4 5.4 5.3	7.4 6.4 6.9 6.8 6.2
e1.5 e1.5 e1.4 e1.4	e1.3 e1.3 e1.3 e1.3 e1.3	e1.1 e1.1 e1.1 e1.1	e0.93 e0.91 e0.91 e0.91 e0.90	e0.79 e0.81 e0.86 e0.86 e0.94	e2.1 e2.3 e2.4 e2.2 e2.1	e7.5 e8.7 e9.2 e10 e13	37 41 44 38 36	17 22 20 18 18	5.1 5.7 9.8 15	5.7 5.6 5.3 5.6 7.4
e1.4 e1.4 e1.4 e1.4	e1.3 e1.3 e1.3 e1.3 e1.3	e1.1 e1.1 e1.0 e1.0	e0.89 e0.89 e0.87 e0.87	e0.99 e1.2 e1.3 e1.4 e1.4	e2.1 e2.0 e2.0 e2.1 e2.3	e13 e12 e10 e9.0 e8.0	38 34 31 31 31	17 16 15 14 13	12 11 10 9.7 9.4	7.8 7.2 6.8 8.0 8.3
e1.4 e1.4 e1.4 e1.4	e1.3 e1.3 e1.3 e1.3 e1.3	e1.0 e1.0 e1.0 e1.0 e1.0 e1.0	e0.86 e0.86 e0.85	e1.4 e1.2 e1.2 e1.3 e1.3	e2.5 e2.5 e2.6 e2.5 e2.6	e7.4 e8.8 e11 e10 e8.7 e7.5	26 11 10 10 13	13 12 11 11 10 9.3	9.6 13 11 9.8 9.2 8.8	8.2 8.2 8.1 8.0 8.9
46.5 1.55 1.9 1.4 92	40.9 1.32 1.4 1.3 81	34.9 1.13 1.3 1.0 69	26.91 0.93 1.0 0.85 53	30.55 0.99 1.4 0.79 61	60.4 2.01 2.6 1.4 120	231.7 7.47 13 2.6 460	849.1 28.3 44 7.2 1,680	332.4 10.7 22 4.1 659	260.4 8.40 15 5.1 517	220.2 7.34 9.2 5.3 437
1.51 3.51 (1998) 0.36 (1979)	1.06 2.50 (1998) 0.28 (1981)	0.87 2.39 (1998) 0.25 (1981)	0.75 1.79 (1998) 0.20 (1979)	0.73 1.50 (1994) 0.20 (1979)	1.16 3.39 (1994) 0.39 (1979)	14.4 34.6 (1994) 3.58 (1982)	52.5 92.6 (2003) 25.5 (1989)	26.0 90.8 (1995) 2.35 (2002)	8.35 21.5 (1995) 0.82 (2002)	4.51 17.3 (1997) 0.59 (2002)
ics		FOR 2003 C	CALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 197	9 - 2004
EAN AN AN Y MINIMUN OW AGE C-FT) OS	М	132 et e( e)	5.0 4 Jun 0.62 Mar 0.63 Feb	4	4,40 1	6.06  44 Jun 60.79 Man 60.79 Man 77 Jun 5.10 Jun 100 13 2.2	12 10 17	:	1,e0.20 Ja e0.20 Ja 238 J b5.66 Ma 940 30 1.6	1995 2002 ul 11, 1995 un 30, 1979 un 30, 1979 ul 7, 1983 ay 31, 2003
	e1.9 e1.9 e1.9 e1.8 e1.8 e1.8 e1.7 e1.7 e1.7 e1.7 e1.6 e1.6 e1.5 e1.5 e1.5 e1.5 e1.4 e1.4 e1.4 e1.4 e1.4 e1.4 e1.4 e1.4	e1.9 e1.4 e1.9 e1.4 e1.9 e1.4 e1.8 e1.4 e1.8 e1.4 e1.3 e1.5 e1.3 e1.5 e1.3 e1.5 e1.3 e1.4 e1.3 e	NOV DEC JAN  e1.9 e1.4 e1.3 e1.9 e1.4 e1.3 e1.9 e1.4 e1.3 e1.8 e1.4 e1.3 e1.8 e1.4 e1.3 e1.8 e1.4 e1.3 e1.7 e1.3 e1.2 e1.7 e1.3 e1.2 e1.7 e1.3 e1.2 e1.6 e1.3 e1.2 e1.6 e1.3 e1.1 e1.5 e1.3 e1.1 e1.4 e1.3 e1.0 e1.4 e1.	NOV DEC JAN FEB  e1.9 e1.4 e1.3 e1.00 e1.9 e1.4 e1.3 e0.99 e1.8 e1.4 e1.3 e0.98 e1.8 e1.4 e1.3 e0.98 e1.8 e1.4 e1.3 e0.98 e1.7 e1.4 e1.3 e0.98 e1.7 e1.3 e1.2 e0.98 e1.7 e1.3 e1.2 e0.97 e1.7 e1.3 e1.2 e0.97 e1.6 e1.3 e1.1 e0.95 e1.5 e1.3 e1.1 e0.95 e1.5 e1.3 e1.1 e0.95 e1.5 e1.3 e1.1 e0.95 e1.5 e1.3 e1.1 e0.93 e1.5 e1.3 e1.1 e0.91 e1.4 e1.3 e1.1 e0.90 e1.4 e1.3 e1.1 e0.89 e1.4 e1.3 e1.0 e0.86 e1.4 e1.3 e1.0 e0.87 e1.4 e1.3 e1.0 e0.86 e1.4 e1.3 e1.0 e0.85 e1.4 e1.3 e1.0 e0.86 e1.4 e1.3 e1.	NOV DEC JAN FEB MAR e1.9 e1.4 e1.3 e1.00 e0.85 e1.9 e1.4 e1.3 e0.99 e0.84 e1.9 e1.4 e1.3 e0.99 e0.84 e1.9 e1.4 e1.3 e0.99 e0.84 e1.8 e1.4 e1.3 e0.98 e0.83 e1.8 e1.4 e1.3 e0.98 e0.83 e1.7 e1.4 e1.3 e0.98 e0.82 e1.7 e1.3 e1.2 e0.98 e0.81 e1.7 e1.3 e1.2 e0.97 e0.81 e1.7 e1.3 e1.2 e0.97 e0.81 e1.6 e1.3 e1.2 e0.97 e0.80 e1.6 e1.3 e1.1 e0.95 e0.79 e1.5 e1.3 e1.1 e0.95 e0.79 e1.5 e1.3 e1.1 e0.95 e0.79 e1.5 e1.3 e1.1 e0.93 e0.79 e1.5 e1.3 e1.1 e0.93 e0.79 e1.5 e1.3 e1.1 e0.91 e0.86 e1.4 e1.3 e1.1 e0.99 e0.94 e1.4 e1.3 e1.1 e0.99 e0.94 e1.4 e1.3 e1.1 e0.99 e0.99 e1.4 e1.3 e1.1 e0.91 e0.86 e1.4 e1.3 e1.1 e0.91 e0.86 e1.4 e1.3 e1.1 e0.87 e1.3 e1.4 e1.3 e1.1 e0.87 e1.3 e1.4 e1.3 e1.1 e0.98 e0.99 e1.4 e1.3 e1.1 e0.99 e0.99 e1.4 e1.3 e1.1 e0.99 e0.99 e1.4 e1.3 e1.1 e0.87 e1.3 e1.4 e1.3 e1.1 e0.87 e1.3 e1.4 e1.3 e1.1 e0.87 e1.3 e1.4 e1.3 e1.1 e0.89 e0.99 e1.4 e1.3 e1.1 e0.89 e0.99 e1.4 e1.3 e1.1 e0.87 e1.3 e1.4 e1.3 e1.0 e0.86 e1.2 e1.5 e1.3 e1.0 e0.86 e1.2 e1.4 e1.3 e1.0 e0.86	NOV DEC JAN FEB MAR APR e1.9 e1.4 e1.3 e1.00 e0.85 e1.5 e1.9 e1.4 e1.3 e0.99 e0.84 e1.6 e1.9 e1.4 e1.3 e0.99 e0.84 e1.6 e1.8 e1.4 e1.3 e0.98 e0.83 e1.5 e1.8 e1.4 e1.3 e0.98 e0.83 e1.6 e1.7 e1.4 e1.3 e0.99 e0.84 e1.6 e1.7 e1.3 e1.2 e0.98 e0.83 e1.6 e1.7 e1.3 e1.2 e0.97 e0.81 e1.8 e1.7 e1.3 e1.2 e0.97 e0.81 e1.8 e1.6 e1.3 e1.2 e0.97 e0.81 e1.8 e1.6 e1.3 e1.2 e0.97 e0.81 e1.8 e1.7 e1.3 e1.2 e0.97 e0.80 e2.0 e1.6 e1.3 e1.1 e0.96 e0.80 e1.8 e1.5 e1.3 e1.1 e0.95 e0.79 e1.8 e1.5 e1.3 e1.1 e0.95 e0.79 e1.8 e1.5 e1.3 e1.1 e0.93 e0.79 e1.8 e1.5 e1.3 e1.1 e0.93 e0.79 e1.8 e1.5 e1.3 e1.1 e0.91 e0.86 e2.4 e1.4 e1.3 e1.1 e0.91 e0.86 e2.4 e1.4 e1.3 e1.1 e0.91 e0.86 e2.4 e1.4 e1.3 e1.1 e0.991 e0.86 e2.2 e1.4 e1.3 e1.1 e0.991 e0.86 e2.4 e1.4 e1.3 e1.1 e0.991 e0.86 e2.2 e1.4 e1.3 e1.1 e0.991 e0.86 e2.4 e1.4 e1.3 e1.1 e0.991 e0.86 e2.2 e1.4 e1.3 e1.1 e0.89 e0.99 e2.1 e1.4 e1.3 e1.1 e0.89 e0.99 e2.1 e1.4 e1.3 e1.1 e0.89 e1.2 e2.0 e1.4 e1.3 e1.1 e0.89 e1.2 e2.0 e1.4 e1.3 e1.1 e0.89 e1.2 e2.0 e1.4 e1.3 e1.0 e0.86 e1.2 e2.6 e1.4 e1.3 e1.0 e0.86 e1.2 e2.5 e1.4 e1.3 e1.0 e0.86 e1.2 e2.6 e1.4 e1.3 e1.0 e0.86 e1.2 e2.0 e1.4 e1.3 e1.0	NOV DEC JAN FEB MAR APR MAY  e1.9 e1.4 e1.3 e1.00 e0.85 e1.5 e2.6 e1.9 e1.4 e1.3 e0.99 e0.84 e1.6 e2.6 e1.9 e1.4 e1.3 e0.99 e0.84 e1.6 e2.6 e1.8 e1.4 e1.3 e0.99 e0.84 e1.6 e2.6 e1.8 e1.4 e1.3 e0.98 e0.83 e1.5 e3.5 e1.8 e1.4 e1.3 e0.98 e0.83 e1.5 e3.5 e1.7 e1.4 e1.3 e0.98 e0.83 e1.6 e4.2 e1.7 e1.3 e1.2 e0.98 e0.81 e1.8 e5.6 e1.7 e1.3 e1.2 e0.97 e0.81 e1.8 e5.6 e1.7 e1.3 e1.2 e0.97 e0.81 e1.8 e5.6 e1.7 e1.3 e1.2 e0.97 e0.81 e2.0 e6.0 e1.6 e1.3 e1.1 e0.96 e0.80 e1.8 e7.7 e1.5 e1.3 e1.1 e0.95 e0.79 e1.8 e6.7 e1.5 e1.3 e1.1 e0.95 e0.79 e1.8 e6.2 e1.5 e1.3 e1.1 e0.93 e0.79 e1.8 e6.2 e1.5 e1.3 e1.1 e0.93 e0.79 e1.9 e6.0 e1.5 e1.3 e1.1 e0.93 e0.79 e2.1 e7.5 e1.5 e1.3 e1.1 e0.91 e0.81 e2.3 e8.7 e1.4 e1.3 e1.1 e0.91 e0.86 e2.2 e10 e1.4 e1.3 e1.1 e0.99 e0.99 e2.1 e13 e1.4 e1.3 e1.1 e0.99 e0.99 e2.1 e13 e1.4 e1.3 e1.1 e0.91 e0.86 e2.2 e10 e1.4 e1.3 e1.1 e0.99 e0.89 e1.2 e2.0 e12 e1.4 e1.3 e1.1 e0.99 e0.89 e1.2 e2.0 e12 e1.4 e1.3 e1.1 e0.99 e0.86 e2.2 e10 e1.4 e1.3 e1.1 e0.89 e1.9 e0.99 e2.1 e13 e1.4 e1.3 e1.0 e0.85 e1.3 e2.5 e10 e1.4 e1.3 e1.0 e0.87 e1.4 e2.5 e8.8 e1.4 e1.3 e1.0 e0.87 e1.4 e2.5 e8.8 e1.4 e1.3 e1.0 e0.87 e1.4 e2.5 e8.8 e1.4 e1.3 e1.0 e0.87 e1.4 e2.1 e9.0 e1.4 e1.3 e1.0 e0.86 e1.2 e2.5 e8.8 e1.4 e1.3 e1.0 e0.86 e1.9 e2.9 e1.9 e1.9 e1.9 e1.9 e1.4 e1.3 e1.0 e0.86 e1.9 e2.9 e1.9 e1.9 e1.9 e1.9 e1.9 e1.9 e1.9 e1	NOV   DEC   JAN   FEB   MAR   APR   MAY   JUN	NOV DEC JAN FEB MAR APR MAY JUN JUL el.9 el.4 el.3 el.00 e0.85 el.5 e2.6 e7.2 ll1 el.9 el.4 el.3 e0.99 e0.84 el.6 e2.6 e8.2 9.2 el.9 el.9 el.4 el.3 e0.99 e0.84 el.6 e2.6 e8.2 9.2 el.9 el.8 el.4 el.3 e0.98 e0.83 el.5 e3.5 el.6 s.1 el.8 el.4 el.3 e0.98 e0.83 el.5 e3.5 el.6 s.1 el.8 el.4 el.3 e0.98 e0.83 el.5 e3.5 el.6 s.1 el.8 el.4 el.3 e0.98 e0.83 el.5 e3.5 el.6 s.1 el.7 el.1 el.3 el.2 e0.98 e0.83 el.5 e3.5 el.6 s.1 el.7 el.1 el.3 el.2 e0.98 e0.81 el.8 e5.6 e2.4 e3.2 7.6 el.7 el.7 el.3 el.2 e0.98 e0.81 el.8 e5.6 e2.4 fo.3 el.7 el.1 el.3 el.2 e0.99 e0.84 el.8 e5.6 e2.4 fo.3 el.7 el.3 el.2 e0.99 e0.84 el.8 e5.6 e2.4 fo.3 el.7 el.3 el.2 e0.99 e0.81 el.8 e5.6 e2.4 fo.3 el.7 el.3 el.2 e0.99 e0.81 el.8 e5.6 e2.4 fo.3 el.7 el.3 el.2 e0.99 e0.81 el.8 e5.6 e2.4 fo.3 el.7 el.3 el.2 e0.99 e0.81 el.8 e5.6 e2.4 fo.3 el.7 el.5 el.3 el.1 e0.95 e0.99 el.8 e2.0 e6.0 e2.2 fo.7 el.5 el.6 el.3 el.1 e0.95 e0.79 el.8 e6.7 33 4.3 el.5 el.5 el.3 el.1 e0.95 e0.79 el.8 e6.7 33 4.3 el.5 el.5 el.3 el.1 e0.95 e0.79 el.8 e6.7 33 4.3 el.5 el.5 el.3 el.1 e0.95 e0.79 el.8 e6.7 33 4.3 el.5 el.5 el.3 el.1 e0.93 e0.79 el.8 e6.2 31 4.1 el.5 el.5 el.3 el.1 e0.93 e0.79 el.8 e6.2 31 4.1 el.5 el.5 el.3 el.1 e0.93 e0.79 el.8 e6.2 31 4.1 el.5 el.5 el.3 el.1 e0.99 e0.99 el.8 e0.20 e0.0 38 4.7 el.5 el.3 el.1 e0.99 e0.99 el.8 e0.20 e0.0 38 4.7 el.5 el.5 el.3 el.1 e0.99 e0.99 el.9 el.9 e0.0 38 el.8 el.4 el.3 el.1 e0.99 e0.99 el.9 el.9 e0.0 38 el.8 el.4 el.3 el.1 e0.99 e0.99 el.9 el.9 el.0 e0.0 38 el.4 el.4 el.3 el.1 e0.99 e0.99 el.1 el.3 el.6 el.3 el.1 e0.99 e0.99 el.1 el.3 el.4 el.3 el.1 el.99 e0.99 el.9 el.9 el.9 el.9 el.9 el.9 el.9 e	NOV DEC JAN FEB MAR APR MAY JUN JUL AUG el.9 el.4 el.3 el.00 el.85 el.5 el.6 er.2 ll.1 8.9 el.9 el.4 el.3 el.099 el.84 el.6 el.2 el.2 8.6 el.9 el.4 el.3 el.099 el.84 el.6 el.2 el.2 8.6 el.9 el.4 el.3 el.099 el.84 el.6 el.2 el.2 el.2 8.6 el.9 el.4 el.3 el.099 el.84 el.6 el.2 el.2 el.2 8.6 el.8 el.4 el.3 el.098 el.83 el.5 el.5 el.5 el.6 8.1 7.6 el.8 el.4 el.3 el.098 el.83 el.5 el.5 el.2 el.2 el.2 7.6 7.2 el.7 el.4 el.3 el.98 el.83 el.5 el.5 el.2 el.2 el.8 el.6 8.1 7.6 el.7 el.3 el.2 el.098 el.81 el.8 el.5 el.7 el.2 el.5 el.6 8.1 7.6 el.7 el.3 el.2 el.098 el.81 el.8 el.6 el.2 el.9 el.6 el.7 el.6 el.7 el.3 el.2 el.997 el.81 el.8 el.6 el.7 el.3 el.2 el.997 el.81 el.8 el.6 el.6 el.7 el.6 el.7 el.3 el.2 el.997 el.81 el.8 el.6 el.6 el.7 el.6 el.6 el.7 el.6 el.7 el.3 el.2 el.997 el.80 el.8 el.8 el.8 el.6 el.6 el.9 el.6 el.7 el.6 el.3 el.2 el.997 el.80 el.8 el.8 el.8 el.6 el.7 el.6 el.5 el.5 el.6 el.7 el.9 el.997 el.80 el.8 el.8 el.8 el.6 el.7 el.6 el.5 el.3 el.1 el.95 el.80 el.80 el.8 el.8 el.7 33 4.3 5.6 el.5 el.5 el.3 el.1 el.95 el.80 el.80 el.8 el.2 al.4 el.3 el.5 el.5 el.5 el.3 el.1 el.905 el.80 el.80 el.8 el.6 el.7 al.4 el.3 el.5 el.5 el.3 el.1 el.905 el.70 el.80 el.8 el.6 el.7 al.4 el.3 el.5 el.5 el.3 el.1 el.905 el.70 el.80 el.8 el.6 el.7 el.7 al.4 el.5 el.5 el.3 el.1 el.903 el.079 el.8 el.6 el.7 el.3 el.5 el.5 el.3 el.1 el.903 el.079 el.8 el.6 el.7 el.3 el.7 el.7 el.8 el.5 el.3 el.1 el.903 el.99 el.9 el.8 el.6 el.7 el.7 el.8 el.5 el.3 el.1 el.909 el.90

e Estimated.

<sup>Also occurred Jan 31 to Apr 4, 1979, and Feb 9 to Apr 9, 1981.
Maximum gage height, 10.64, May 15, 1993, present datum, backwater from ice.</sup> 

#### 06746110 JOE WRIGHT CREEK BELOW JOE WRIGHT RESERVOIR, CO

 $LOCATION.--Lat~40^{\circ}33^{\prime}43^{"}, long~105^{\circ}51^{\prime}48^{"}, in~SE^{1}_{\sqrt{4}}NE^{1}_{\sqrt{4}}~sec. 24, T.7~N., R.76~W., Larimer County, Hydrologic Unit 10190007, on left bank 500~ft downstream from unnamed tributary, 2,000~ft downstream from Joe Wright Dam, and 3 mi southwest of Chambers Lake.$ 

DRAINAGE AREA.--6.90 mi<sup>2</sup>.

 $PERIOD\ OF\ RECORD. -- June\ 1978\ to\ current\ year.\ For\ a\ complete\ listing\ of\ historical\ data\ available\ for\ this\ site,\ see\ http://waterdata.usgs.gov/co/nwis/inventory/\\?site\_no=06746110$ 

GAGE.--Water-stage recorder. Elevation of gage is 9,710 ft above NGVD of 1929, from topographic map. Prior to Aug. 7, 1989, at datum 0.50 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Joe Wright Reservoir, 2000 ft upstream.

					R YEAR OC		ET PER SECC 3 TO SEPTEM /ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	22 59 59 59 59	e1.5 e1.5 e1.5 e1.5 e1.5	e1.6 e1.6 e1.6 e1.6 e1.6	e1.7 e1.7 e1.7 e1.7 e1.7	e1.6 e1.6 e1.5 e1.5 e1.5	e1.5 e1.5 e1.5 e1.5 e1.5	1.2 1.3 1.7 1.7 1.8	1.9 2.0 2.4 3.6 6.4	8.7 8.9 9.5 17 34	9.4 9.1 9.1 8.7 9.7	12 12 12 12 12	37 36 36 36 36
6 7 8 9 10	58 57 57 57 57 36	e1.5 e1.5 e1.5 e1.5 e1.5	e1.6 e1.6 e1.6 e1.6 e1.6	e1.7 e1.7 e1.7 e1.7 e1.7	e1.5 e1.5 e1.5 e1.5 e1.5	e1.5 e1.5 e1.5 e1.5 e1.5	1.8 1.9 1.7 1.7	7.6 7.8 7.7 7.8 8.3	39 44 51 52 50	12 12 25 43 43	12 12 20 35 38	36 26 5.7 5.7 5.8
11 12 13 14 15	1.9 1.9 1.9 1.8 1.8	e1.5 e1.5 e1.5 e1.5 e1.5	e1.6 e1.6 e1.6 e1.6 e1.6	e1.7 e1.7 e1.7 e1.7 e1.7	e1.5 e1.5 e1.5 e1.5 e1.5	e1.5 e1.5 e1.5 e1.5 e1.5	1.7 1.7 1.7 1.7	8.4 7.6 7.0 6.6 6.8	45 46 41 32 28	44 43 36 42 60	36 35 34 34 33	5.7 5.7 5.7 5.7 5.6
16 17 18 19 20	1.7 1.7 1.7 1.7 1.7	e1.5 e1.5 e1.6 e1.6	e1.6 e1.6 e1.6 e1.6 e1.6	e1.7 e1.7 e1.6 e1.6	e1.5 e1.5 e1.5 e1.5 e1.5	e1.5 e1.5 1.5 1.6 1.7	1.7 1.8 1.9 1.9	7.0 7.2 8.0 8.9 9.1	21 18 19 23 23	56 56 56 56 57	33 35 40 40 39	4.9 4.2 4.2 4.2 4.4
21 22 23 24 25	1.7 1.7 1.7 1.7 1.7	e1.6 e1.6 e1.6 e1.6 e1.6	e1.6 e1.6 e1.6 e1.6 e1.6	e1.6 e1.6 e1.6 e1.6 e1.6	e1.5 e1.5 e1.5 e1.5 e1.5	1.7 1.7 1.7 1.7 1.7	1.8 1.9 1.7 1.7	9.1 8.6 8.4 8.2 8.3	22 27 35 34 28	47 31 31 31 27	39 39 39 38 38	4.5 4.6 4.2 4.5 4.7
26 27 28 29 30 31	e1.6 e1.5 e1.5 e1.5 e1.5	e1.6 e1.6 e1.6 e1.6	e1.6 e1.6 e1.6 e1.6 e1.6 e1.6	e1.6 e1.6 e1.6 e1.6 e1.6 e1.6	e1.5 e1.5 e1.5 e1.5	1.7 1.7 1.7 1.7 1.6 1.2	1.8 2.0 2.1 2.1 1.9	8.3 8.9 9.2 9.2 8.6 8.6	24 14 9.1 9.1 9.6	19 24 37 37 29 12	38 38 38 37 37 37	4.6 4.6 4.6 4.8
TOTAL MEAN MAX MIN AC-FT	558.5 18.0 59 1.5 1,110	46.2 1.54 1.6 1.5 92	49.6 1.60 1.6 1.6 98	51.4 1.66 1.7 1.6 102	43.7 1.51 1.6 1.5 87	48.4 1.56 1.7 1.2 96	52.8 1.76 2.1 1.2 105	227.5 7.34 9.2 1.9 451	821.9 27.4 52 8.7 1,630	1,012.0 32.6 60 8.7 2,010	954 30.8 40 12 1,890	356.2 11.9 37 4.2 707
MEAN MAX (WY) MIN (WY)	4.69 20.8 (1995) 0.54 (1989)	2.70 37.8 (2001) 0.34 (1995)	1.06 2.91 (2001) 0.21 (1993)	0.95 2.60 (2002) 0.24 (1993)	0.91 2.66 (2002) 0.22 (1995)	- 2004, BY V 0.95 2.65 (2002) 0.23 (1995)	1.12 3.14 (2001) 0.29 (1991)	12.3 48.0 (1998) 1.21 (1980)	59.4 100 (1996) 8.67 (2002)	36.7 90.8 (1993) 2.49 (1989)	30.0 84.7 (1991) 6.44 (1981)	29.7 61.8 (1995) 1.13 (1991)
SUMMAR	RY STATIST	ICS		FOR 2003 C	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 1979	9 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE			M	6,494.4 17.8 180 Jun 25 e1.1 Jan 5 e1.1 Jan 5			4,222.2 11.5 60 Jul 15 1.2 Mar 31 1.5 Mar 27 63 Jul 14 1.56 Jul 14			15.1 24.4 3.69 1980 245 Jul 1, 1993 0.17 Apr 3, 1991 0.18 Mar 31, 1991 284 Aug 18, 1991 a2.71 Aug 18, 1991		
MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				12,880 73 1.6 1.2			8,37 3			10,9		

e Estimated.

a Maximum gage height, 2.78 ft, Jul 10, 1997.

#### 06751150 NORTH FORK CACHE LA POUDRE RIVER BELOW HALLIGAN RESERVOIR NEAR VIRGINIA DALE, CO

 $LOCATION.--Lat\ 40^{\circ}52'42", long\ 105^{\circ}20'15", in\ NE^{1}_{4}SW^{1}_{4}\ sec. 34,\ T.11\ N.,\ R.71\ W.,\ Larimer\ County,\ Hydrologic\ Unit\ 10190007,\ on\ left\ bank\ 500\ ft\ downstream\ from\ Halligan\ Dam,\ 4.0\ mi\ west\ of\ Highway\ 287,\ and\ 5.0\ mi\ south\ of\ Virginia\ Dale.$ 

DRAINAGE AREA.--355 mi<sup>2</sup>.

PERIOD OF RECORD.--March 1998 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06751150

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,310 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow affected by transbasin diversions, storage reservoirs, and irrigation.

					R YEAR OC		ET PER SECO TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	28 14 4.0 4.1 4.2	3.6 3.7 3.4 3.3 3.5	4.7 4.7 4.7 4.7 4.7	5.4 5.3 5.2 5.2 5.2	2.7 2.7 2.7 2.7 2.7	70 70 71 71 70	39 39 39 39 26	17 17 17 17 17	103 104 87 81 81	e81 e81 81 81 82	79 79 78 79 79	51 50 50 50 50
6 7 8 9 10	2.2 0.62 1.5 1.4 1.4	3.0 2.2 2.4 2.5 2.2	4.7 4.7 4.9 4.9 4.9	5.2 5.2 3.9 3.0 3.0	2.7 2.7 2.7 2.7 2.6	70 69 69 68 68	16 16 16 17 17	18 18 18 18	81 80 80 81 80	82 81 81 81	78 78 77 78 77	50 50 78 89 89
11 12 13 14 15	1.5 1.5 1.5 1.3 1.2	1.9 3.3 4.5 4.7 5.2	4.9 4.9 4.9 4.9	3.0 3.0 3.0 2.9 2.8	2.5 2.6 2.7 12 45	67 67 67 66 66	17 17 17 16 16	37 44 45 45 45	81 82 81 81	81 81 81 81	77 76 76 76 75	88 88 87 86 85
16 17 18 19 20	1.3 1.4 1.6 1.8 1.9	5.2 5.0 4.9 4.9	4.9 4.9 5.8 6.2 6.2	2.8 2.8 2.8 2.8 2.7	30 21 34 1.6 1.6	66 65 65 64 64	16 16 16 17 17	45 45 46 47 47	81 80 80 80 80	79 79 79 80 79	75 73 73 46 42	84 83 83 82 88
21 22 23 24 25	2.0 2.1 2.5 3.3 3.4	4.9 4.9 4.9 4.9	6.2 6.2 6.1 5.9 5.9	2.7 2.7 2.7 2.7 2.7	1.6 1.5 1.5 26 43	64 51 39 39 39	17 17 17 17 17	47 47 47 47 48	80 80 81 81	79 79 79 79 79	48 49 49 48 48	90 90 88 87 86
26 27 28 29 30 31	3.5 2.1 0.85 2.0 3.3 3.4	4.8 4.7 4.7 4.7 4.7	5.9 5.9 5.9 5.9 5.8 5.5	2.7 2.7 2.7 2.7 2.7 2.7	61 70 70 70 	40 40 40 39 39 39	17 17 17 17 17	77 94 97 100 103 103	80 81 81 81 e81	79 79 79 79 79 79	48 50 51 51 51 51	86 85 84 88 89
TOTAL MEAN MAX MIN AC-FT	104.87 3.38 28 0.62 208	122.4 4.08 5.2 1.9 243	165.3 5.33 6.2 4.7 328	104.9 3.38 5.4 2.7 208	524.5 18.1 70 1.5 1,040	1,822 58.8 71 39 3,610	599 20.0 39 16 1,190	1,432 46.2 103 17 2,840	2,471 82.4 104 80 4,900	2,481 80.0 82 79 4,920	2,015 65.0 79 42 4,000	2,334 77.8 90 50 4,630
MEAN MAX (WY) MIN (WY)	7.09 22.1 (2000) 3.38 (2004)	3.92 5.71 (2000) 2.80 (2003)	7.08 17.9 (1999) 2.77 (2003)	14.0 37.2 (2000) 2.82 (2003)	24.9 46.3 (1999) 2.43 (2003)	49.8 80.7 (1999) 2.39 (2003)	64.9 131 (1998) 2.67 (2002)	233 641 (1999) 35.9 (2002)	167 369 (1999) 45.3 (2002)	84.0 129 (1999) 34.5 (2002)	75.4 120 (1999) 21.2 (2002)	56.0 105 (1999) 14.6 (2002)
SUMMAI	RY STATIST	TICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 199	98 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 90 PERCENT EXCEEDS			1	566 ( 57,650 265	9.6 6 May 9.15 Mar 1.1 Apr	13	10 10 28,12 8	38.7 0.62 Oc 1.3 Oc 0.6 May 2.96 May		1,: 1,: 45,	0.15 M 1.1 A 840 A 6.47 A	1999 2002 ay 1, 1999 ar 13, 2003 pr 4, 2003 pr 30, 1999 pr 30, 1999

e Estimated.

#### 06751490 NORTH FORK CACHE LA POUDRE RIVER AT LIVERMORE, CO

 $LOCATION.--Lat~40^{\circ}47^{\circ}15^{\circ}, long~105^{\circ}15^{\circ}06^{\circ}, in~SW^{1/}_{4}SE^{1/}_{4}~sec. 32, T.10~N., R.70~W., Larimer County, Hydrologic Unit 10190007, on left bank 30 ft downstream from bridge on Colorado State Highway 200, 2.0 mi west of Livermore, and 2.9 mi downstream from Stonewall Creek.$ 

DRAINAGE AREA.--539 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1986 to current year. May 1929 to September 1931, May 1947 to September 1965 (published as "near Livermore", station 06751500); records are not considered equivalent. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06751490

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,715 ft above NGVD of 1929, from topographic map.

REMARKS.—Records good except for estimated daily discharges, which are poor. Natural flow affected by transbasin diversions, storage reservoirs, diversions above station for irrigation, and return flow from irrigated areas.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	e7.2 e16 e20 e13 e11	e10 e10 e10 e10 e9.7	e12 e12 e11 e9.6 e9.2	e12 e12 e12 e12 e12	e9.2 e9.3 e9.3 e9.4 e9.7	e15 e5.3 e4.6 e4.8 e5.2	e4.9 e4.8 e5.1 e5.5 e5.5	e2.8 e3.1 e3.9 e3.0 e3.1	5.7 6.2 5.0 4.9 7.0	e93 e95 e98 e98	53 44 41 40 33	20 18 16 16 17
6 7 8 9 10	e8.4 e7.4 e6.8 e6.4 e6.4	e10 e10 e10 e8.8 e8.6	e10 e11 e11 e11	e12 e12 e11 e11	e9.7 e9.7 e9.8 e9.8 e9.8	e4.9 e3.9 e4.1 e4.1 e5.8	e5.4 e5.9 e6.0 e6.4 e7.5	e4.1 e4.2 e3.7 e3.7 e4.5	7.4 7.7 6.9 6.9 7.3	e99 e85 e60 e59 e59	33 35 34 34 35	17 17 16 14 14
11 12 13 14 15	e6.0 e6.4 e6.0 e5.2 e4.4	e8.0 e7.9 e8.3 e8.6 e10	e11 e11 e11 e11	e10 e9.8 e9.8 e10 e10	e9.8 e9.7 e9.7 e13 e19	e6.1 e5.7 e6.5 e7.0 e7.5	e5.8 e6.5 e6.7 e7.5 e7.7	e4.3 e4.5 5.0 5.9 8.5	6.5 7.7 6.7 5.9 5.8	e59 e58 e58 57 57	30 22 18 9.2 8.3	14 13 13 16 15
16 17 18 19 20	e3.8 e4.2 e4.7 e6.1 e6.4	e11 e11 e11 e11 e10	e11 e11 e11 e11	e10 e10 e9.7 e9.7 e9.7	e50 e20 e39 e12 e8.1	e7.7 e7.1 e6.8 e6.6 e6.7	e6.6 e6.4 e5.6 e5.2 e4.6	14 11 14 8.1 7.3	6.0 8.4 14 25 28	57 59 59 57 56	6.1 5.4 e8.9 e13 e19	13 12 10 7.8 9.9
21 22 23 24 25	e6.9 e6.7 e6.8 e6.2 e9.5	e10 e11 e11 e12 e11	e11 e11 e11 e11 e12	e9.8 e10 e10 e10 e9.7	e8.1 e8.0 e8.0 e8.0 e32	e7.3 e7.8 e6.4 e7.9 e6.4	e3.9 e4.7 e5.7 e6.5 e5.9	6.7 6.9 9.3 9.3 4.0	51 72 57 49 56	54 55 63 69 75	e23 e28 e33 35 31	13 17 17 16 15
26 27 28 29 30 31	e10 e10 e9.5 e8.4 e7.8 e7.4	e12 e12 e12 e12 e12	e12 e12 e12 e12 e12 e12	e9.7 e9.7 e9.7 e9.6 e9.3 e9.3	e13 e8.1 e6.2 e6.2	e6.3 e6.5 e6.2 e5.9 e5.3 e5.0	e5.2 e3.9 e2.9 e2.9 e2.8	3.7 3.4 4.3 5.3 5.9 6.2	68 59 69 91 e92	73 69 63 64 65 59	28 30 30 28 25 21	15 15 16 16 22
TOTAL MEAN MAX MIN AC-FT	245.0 7.90 20 3.8 486	308.9 10.3 12 7.9 613	345.8 11.2 12 9.2 686	322.5 10.4 12 9.3 640	383.6 13.2 50 6.2 761	196.4 6.34 15 3.9 390	164.0 5.47 7.7 2.8 325	183.7 5.93 14 2.8 364	843.0 28.1 92 4.9 1,670	2,130 68.7 99 54 4,220	833.9 26.9 53 5.4 1,650	450.7 15.0 22 7.8 894
							ATER YEAR	` ′	100	20.2	4 2 7	0.05
MEAN MAX (WY) MIN (WY)	11.4 41.0 (1998) 4.85 (1989)	15.4 98.8 (1998) 4.01 (2003)	11.0 34.3 (1998) 3.58 (1988)	12.9 46.2 (1999) 3.60 (1988)	16.0 48.2 (1996) 4.35 (2003)	19.4 55.5 (1990) 6.34 (2004)	62.5 244 (1990) 4.57 (1995)	169 904 (1999) 5.66 (2002)	183 857 (1995) 4.97 (2002)	29.2 133 (1995) 2.16 (2002)	16.5 52.5 (1991) 2.45 (2002)	9.87 23.6 (1997) 3.92 (2001)
SUMMAR	RY STATIST	TICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 1987	7 - 2004
LOWEST HIGHEST LOWEST ANNUAL	, MEAN 'ANNUAL M ANNUAL M 'DAILY ME DAILY ME, SEVEN-DA	IEAN AN AN Y MINIMUN	И	21,968.4 60.2 452 May 31 3.2 Sep 3 4.0 Jan 27			6,407.5 17.5 99 Jul 6 e2.8 Apr 30 e3.1 Apr 28			46.3 141 1999 6.24 2002 2,760 May 1, 1999 a1.3 Jul 20, 2002 1.6 Jul 14, 2002		
MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS							12,71	58.04 Jui	n 29 n 29	5,4 33,;	17.53 Jur	n 1,1991 n 1,1991

e Estimated.

a Also occurred Sep 5, 2002.

b Maximum gage height, 9.04 ft, Feb 16, backwater from debris.

#### 06752000 CACHE LA POUDRE RIVER AT MOUTH OF CANYON, NEAR FORT COLLINS, CO

LOCATION.--Lat  $40^{\circ}39^{\circ}52^{\circ}$ , long  $105^{\circ}13^{\circ}26^{\circ}$ , in  $NW^{1}_{4}$  sec. 15, T.8 N., R.70 W., Larimer County, Hydrologic Unit 10190007, on left bank at mouth of canyon, 0.5 mi downstream from headgate of Poudre Valley Canal, 1.2 mi upstream from Lewstone Creek, and 9.3 mi northwest of courthouse in Fort Collins.

DRAINAGE AREA .-- 1,055 mi<sup>2</sup> (revised).

PERIOD OF RECORD.--June to August 1881, May to July 1883, October 1883 to current year. Monthly discharge only for some periods, published in WSP 1310. Records for March 23 to April 30 and July 4 to August 20, 1883, published in WSP 9, have been found to be unreliable and should not be used. Prior to 1902, published as Cache la Poudre Creek or River at or near Fort Collins. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/

REVISED RECORDS.--WSP 1310: 1885-87, 1889, 1892, 1894-96, 1934. WSP 1730: 1960, drainage area. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,220 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transbasin and transmountain diversions (see elsewhere in this report), diversions upstream from station for irrigation of about 50,000 acres, most of which is downstream from station, and diversions for municipal

COOPERATION .-- Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

#### DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR JUN JUL AUG SEP MAY 50 1.210 e59 e28 e25 330 186 46 46 e33 e24 48 85 450 304 176 3 108 56 47 e40 e24 25 42 79 381 784 442 121 e34 4 122 52 e36 e30 30 38 113 575 798 375 107 5 110 44 e30 e28 e32 33 35 202 719 861 338 129 105 31 28 48 e29 e19 e31 631 849 771 135 95 38 49 e26 27 51 765 1,030 659 308 116 e26 e24 e24 814 762 293 332 8 88 40 e45 e38 34 51 59 1,160 649 109 41 44 703 86 e44 e53 1.120 110 10 85 42 e29 e19 40 72 803 324 e43 1.250 684 104 48 1,080 42 11 80 e20 e43 e2.1 32 823 626 311 106 12 40 36 e21 e40 e2.1 34 49 741 870 570 268 109 37 e21 e44 e22 39 13 34 51 595 871 601 224 102 43 42 e27 e37 e19 34 52 371 184 14 111 56 40 34 52 15 e38 e35 e22 305 928 536 112 52 95 16 54 36 e35 e29 e25 34 330 930 640 163 17 53 43 e28 e29 e68 32 50 462 951 169 85 712 54 53 18 e32 e28 e27 e36 31 487 953 80 612 19 53 e20 e32 e26 33 58 815 589 379 72 e64 20 52 e41 e32 e25 e46 35 52 765 672 681 334 69 21 52 37 57 97 e36 e38 e28 e28 871 675 631 264 51 e25 37 63 127 e38 e46 e33 724 757 23 45 e31 e26 e27 48 38 64 588 599 661 196 112 24 25 e31 e31 e32 43 46 62 65 31 29 e12 48 529 538 626 162 106 e12 402 510 e38 62 569 141 113 26 33 e20 e41 e23 40 47 69 390 589 507 130 120 25 23 34 31 2.7 e24 e30 e19 47 63 357 615 562 166 123 28 500 144 e27 e25 e24 48 65 678 590 254 27 29 e32 e24 e23 31 42 235 85 734 665 577 114 33 97 30 e45 e19 e27 36 636 799 497 202 128 ---48 391 31 e27 e27 46 474 191 TOTAL 1,090 1,047 971 950 1,124 1,706 20,171 1.814 15,964 23,120 8.258 3,418 MEAN 58.5 36.3 33.8 31.3 32.8 36.3 56.9 771 266 515 651 114 122 59 48 97 871 1,250 MAX 56 53 68 1,210 450 186 MIN 23 12 19 19 19 25 35 304 343 40,010 AC-FT 3.600 2,160 2,080 1,930 1.880 2.230 3.380 31,660 45,860 16,380 6,780 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1881 2004, BY WATER YEAR (WY) MEAN 89.3 60.9 44.4 40.8 43.2 53.1 148 915 1,802 776 325 161 MAX (WY) 270 177 125 158 138 149 743 2.807 4.812 2.225 792 443 (1943)(1998)(1984)(1984)(1984)(1980)(1900)(1900)(1884)(1983)(1884)(1938)MIN 21.7 9.0010.2 10.6 160 401 61.2(1995)(1939)(1965)(1930)(1967)(1939)(1991)(2002)(2002)(2002)(1954)(2002)(WY) FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR SUMMARY STATISTICS WATER YEARS 1881 - 2004 ANNUAL TOTAL 111 337 1 79,633 ANNUAL MEAN HIGHEST ANNUAL MEAN 305 218 365 1983 891 LOWEST ANNUAL MEAN 89.5 2002 HIGHEST DAILY MEAN 3,010 1,250 7,550 Jun Jun 10 Jun 16, 1923 LOWEST DAILY MEAN e1.6 Feb 8 e12 Nov 24 Nov 20, 1948 a1.6 Nov 7, 1938 Jun 9, 1891 ANNUAL SEVEN-DAY MINIMUM e13 Feb 2 e21 Feb 9 Nov 39 MAXIMUM PEAK FLOW b21,000 1.600 Jul MAXIMUM PEAK STAGE 4.31 Jul ANNUAL RUNOFF (AC-FT) 220,800 158,000 10 PERCENT EXCEEDS 1,070 682 1,160 50 PERCENT EXCEEDS 59 54 88 20 26 90 PERCENT EXCEEDS 24

e Estimated.

a Also occurred Nov 28, 1948, caused by diversion of Poudre Valley Canal, 0.5 mi upstream, and Feb 8, 2003 (flow estimated), due to diversions.

b Maximum discharge determined, caused by failure of Chambers Lake Dam, from reports of State Engineers Office. A greater discharge, but not determined, occurred May 20, 1904.

#### 06752260 CACHE LA POUDRE RIVER AT FORT COLLINS, CO

 $LOCATION.--Lat~40°35'21", long~105°04'09", in~SE^{1}_{4}NW^{1}_{4}~sec. 12, T.7~N., R.69~W., Larimer~County, Hydrologic~Unit~10190007, on left bank~100~ft~upstream~from~Lincoln~Street~bridge~in~Fort~Collins.$ 

DRAINAGE AREA.--1,127 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1975 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06752260

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,940 ft above NGVD of 1929, from topographic map. Prior to May 22, 1987, at site 300 ft downstream, at different datum. May 22, 1987 to Nov. 10, 1988 at site 4,300 ft upstream, at different datum. Nov. 10, 1988 to Oct. 16, 1996, at site 100 ft upstream, at same datum.

REMARKS.—Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain and transbasin diversions, storage reservoirs, power developments, diversion for municipal supply, diversions upstream from station for irrigation, and return flow from irrigated areas.

					R YEAR OCT		ET PER SECO TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	6.3 6.3 7.7 26 20	7.3 6.6 6.9 4.8 4.7	3.4 3.3 2.8 2.7 2.5	3.4 3.4 3.8 3.6 4.2	e1.7 e1.7 e1.7 e1.6 e1.5	e0.20 e0.20 e0.20 0.80 2.3	63 54 38 37 25	67 52 43 49 109	17 62 92 142 103	593 449 315 223 241	56 68 100 29 30	38 51 92 67 84
6 7 8 9 10	6.4 6.8 5.9 5.3 5.8	4.3 4.2 4.2 4.6 4.8	2.5 2.5 4.6 7.0 5.7	4.2 4.2 4.2 3.7 3.5	e1.4 e1.3 e1.3 e1.2	0.60 0.53 0.50 0.37 0.32	18 14 18 44 71	260 248 310 282 330	188 471 507 360 495	65 23 56 157 219	67 40 7.5 38 75	100 80 60 63 57
11 12 13 14 15	5.7 5.5 5.5 9.2	3.8 3.7 3.4 3.4 3.5	5.3 5.3 5.1 4.8 5.1	3.2 3.1 2.8 3.1 2.8	e1.1 e1.0 e1.0 e0.96	0.85 0.86 2.1 2.3 2.3	47 31 30 28 30	408 348 269 225 230	334 239 381 443 422	176 130 148 89 59	51 42 25 20 26	59 67 61 69 77
16 17 18 19 20	15 14 11 8.0 6.9	3.4 3.2 3.1 3.0 3.1	4.3 4.2 4.2 4.2 4.2	2.7 2.5 2.5 2.5 2.5	e0.88 e0.80 e0.69 e0.20 0.29	e2.2 e2.1 e2.0 e1.9 e1.8	26 22 21 22 23	217 254 270 357 373	391 407 470 331 216	157 324 117 139 191	24 18 62 235 281	56 41 47 40 32
21 22 23 24 25	7.8 12 9.1 6.1 5.3	3.1 3.1 3.1 3.2 3.4	4.2 4.6 3.9 3.7 4.1	2.5 2.5 2.5 2.5 2.5	e0.20 e0.20 0.21 0.28 0.22	e1.7 e1.7 e1.6 e1.5 1.5	21 31 38 27 26	406 316 225 246 82	274 355 227 194 180	171 115 236 184 141	201 195 95 63 127	57 104 90 76 71
26 27 28 29 30 31	9.5 14 14 12 10 14	3.4 3.2 2.9 3.0 3.3	4.2 3.9 4.5 5.0 3.4 3.5	2.5 2.4 2.3 2.1 2.0 e1.9	e0.20 e0.20 e0.20 e0.20	1.6 1.8 1.5 2.7 2.6 0.23	34 27 24 41 59	67 89 165 300 240 88	274 322 319 319 368	107 139 165 163 117 97	94 114 138 110 67 43	89 98 126 85 124
TOTAL MEAN MAX MIN AC-FT	304.1 9.81 26 5.3 603	117.7 3.92 7.3 2.9 233	128.7 4.15 7.0 2.5 255	91.6 2.95 4.2 1.9 182	24.73 0.85 1.7 0.20 49	42.86 1.38 2.7 0.20 85	990 33.0 71 14 1,960	6,925 223 408 43 13,740	8,903 297 507 17 17,660	5,506 178 593 23 10,920	2,541.5 82.0 281 7.5 5,040	2,161 72.0 126 32 4,290
				OR WATER Y		,		` ′	952	226	70.4	25.0
MEAN MAX (WY) MIN (WY)	25.1 182 (1998) 1.76 (2002)	27.8 183 (1998) 1.79 (1978)	24.1 97.3 (1985) 1.91 (1978)	30.1 123 (1984) 2.29 (1978)	31.4 135 (1984) 0.85 (2004)	31.8 136 (1980) 1.38 (2004)	97.0 652 (1983) 0.37 (1988)	430 2,720 (1980) 14.9 (1976)	853 4,771 (1983) 158 (1989)	226 1,450 (1983) 34.9 (2002)	72.4 301 (1997) 12.8 (1988)	35.9 207 (1997) 4.79 (1987)
SUMMAR	RY STATIST	ICS		FOR 2003 C	ALENDAR Y	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 1	975 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) LO DEDECTAT EVCCEDOS			27,066.8 74.2 1,310 Jun 1 e1.0 Mar 11 e1.1 Mar 10			11	27,736.19 75.8 593 Jul 1 e0.20 Feb 19 e0.20 Feb 26 997 Jul 1 55.010 Jul 1			159 779 1983 33.3 2002 6,080 Jun 21, 1983 a0.00 Aug 18, 1987 0.00 Mar 24, 1988 7,710 Apr 30, 1999 114,900		
ANNUAL RUNOFF (AC-F1) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			229 10 3.2					53 16 1.5		3	322 25 2.8	

e Estimated

a Also occurred Aug 19, Sep 4, 18-19, 1987, and many days in 1988.

#### 06752280 CACHE LA POUDRE RIVER ABOVE BOXELDER CREEK NEAR TIMNATH, CO

LOCATION.--Lat 40 33'07", long 105 00'39", in NE \(^1\_4\)NW \(^1\_4\) sec.28, T.7 N., R.68 W., Larimer County, Hydrologic Unit 10190007, on left bank 4,000 ft upstream from Boxelder Creek, 2.0 mi upstream from Interstate Highway 25 bridge, and 3.8 mi southeast of intersection of College Avenue and Prospect Street in Fort Collins.

DRAINAGE AREA.--1,244 mi<sup>2</sup> (revised).

PERIOD OF RECORD.--October 1979 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=06752280

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,860 ft above NGVD of 1929, from topographic map. Prior to March 24, 1994, at site 1,900 ft downstream at different datum.

REMARKS.--Records fair, except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain and transbasin diversions, storage reservoirs, power developments, diversion for municipal supply, diversions upstream from station for irrigation, and return flow from irrigated areas.

					DISCHARGE R YEAR OC' DAI		TO SEPTEM					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1.6 1.4 1.3 7.6	1.7 1.5 1.8 1.6 1.7	1.7 1.5 e1.5 e1.5 e1.5	0.91 0.92 0.92 0.84 0.91	1.1 1.0 0.99 1.2 1.2	0.87 1.0 1.2 1.4 1.8	14 6.1 1.4 1.2 1.3	32 13 1.8 2.6 29	29 65 91 140 121	355 269 199 161 197	20 19 42 9.2 6.8	14 12 52 26 53
6 7 8 9 10	1.9 1.2 1.2 1.1 1.2	2.0 2.2 2.1 2.1 2.4	e1.5 e1.5 e1.7 1.7 1.6	1.0 0.92 1.4 1.6 1.4	1.2 1.1 1.2 1.2 1.2	1.6 1.8 1.8 2.0 2.0	1.3 1.5 2.3 27 68	120 140 262 252 276	145 420 457 338 423	30 11 12 75 146	12 6.5 4.4 3.9 20	55 42 26 25 23
11 12 13 14 15	1.2 1.2 1.3 1.0 1.1	3.2 4.0 4.0 4.2 4.3	1.6 1.6 1.7 1.6 1.4	1.3 1.2 1.1 1.1	1.6 1.7 1.8 1.7 1.5	2.0 2.0 2.1 2.1 2.1	42 25 15 1.8 1.3	359 323 259 203 216	326 238 324 380 369	113 68 76 28 16	17 8.8 6.1 5.7 7.3	23 28 25 27 36
16 17 18 19 20	1.2 1.3 1.5 1.0 1.2	4.0 3.9 3.8 4.1 4.3	1.8 1.7 1.5 1.5	1.1 0.93 0.91 0.92 0.92	1.5 e1.5 e1.5 e1.6 e1.5	2.1 2.0 1.8 1.7 1.7	1.5 2.4 1.6 1.8 2.1	189 221 269 334 353	355 372 446 253 106	53 206 57 53 99	4.9 6.8 34 180 209	23 15 16 14 9.7
21 22 23 24 25	1.2 0.85 0.74 1.2 1.2	4.2 3.6 3.6 3.5 3.1	1.5 1.5 1.5 1.3 1.1	0.91 0.88 0.95 0.92 0.92	e1.5 e1.6 1.8 1.4 1.3	1.6 1.5 1.7 1.8 2.0	4.7 11 11 1.3 1.1	387 312 237 254 116	138 208 105 117 126	82 50 164 125 77	145 124 61 23 71	31 60 47 34 7.0
26 27 28 29 30 31	1.4 1.8 2.2 2.4 1.9 2.8	2.7 2.3 2.4 2.1 1.8	1.1 0.95 0.94 1.1 0.99 0.94	0.92 0.93 0.94 0.92 0.92 1.0	0.89 0.82 0.85 0.92	1.9 1.8 1.7 1.5 1.4 1.5	2.8 1.6 1.2 7.5 22	80 93 162 284 255 123	195 250 197 151 201	56 73 103 105 69 48	50 86 95 73 35 18	13 17 26 6.4 28
TOTAL MEAN MAX MIN AC-FT	59.19 1.91 11 0.74 117	88.2 2.94 4.3 1.5 175	44.62 1.44 1.8 0.94 89	31.61 1.02 1.6 0.84 63	38.37 1.32 1.8 0.82 76	53.47 1.72 2.1 0.87 106	282.8 9.43 68 1.1 561	6,157.4 199 387 1.8 12,210	7,086 236 457 29 14,060	3,176 102 355 11 6,300	1,404.4 45.3 209 3.9 2,790	814.1 27.1 60 6.4 1,610
MEAN MAX (WY) MIN (WY)	20.2 162 (1998) 1.91 (2004)	29.8 179 (1998) 1.73 (2003)	24.9 114 (1998) 1.44 (2004)	25.7 139 (1984) 1.02 (2004)	25.0 156 (1984) 1.32 (2004)	27.5 159 (1980) 1.72 (2004)	98.7 633 (1980) 1.93 (2002)	408 2,729 (1980) 8.66 (1982)	806 4,430 (1983) 85.8 (1989)	187 1,288 (1983) 5.94 (1987)	48.2 278 (1997) 4.27 (1987)	28.8 182 (1997) 1.99 (2002)
SUMMAR	RY STATIST	ICS		FOR 2003 C	ALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 1980	0 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE	MEAN ANNUAL M ANNUAL M DAILY ME DAILY ME	IEAN AN AN Y MINIMUN OW AGE AC-FT) OS	4	87( eC ] 32,800	5.3 ) Jun 0.59 Aug 0 Dec	8	4. 5: 38,1	83 Jun 5.56 Jun	t 23 i 18	5, a7,, 104,	0.03 Au 0.34 Au 200 Ma b11.13 Ma	1983 2002 y 1, 1999 g 12, 2002 g 15, 2002 y 1, 1999 y 1, 1999
90 PERCE	ENT EXCEEI	OS		1	.2			1.0			3.3	

e Estimated.

a From slope-area measurement of peak flow. b From highwater marks.

#### 06753990 LONETREE CREEK NEAR GREELEY, CO

LOCATION.--Lat  $40^{\circ}26'33''$ , long  $104^{\circ}35'18''$ , in  $NE^{1}_{4}NW^{1}_{4}$  sec.31, T.6 N., R.64 W., Weld County, Hydrologic Unit 10190008, on right bank 50 ft downstream from bridge on Weld County Road  $62^{-1}/_{2}$ , 5.5 mi east of Greeley.

DRAINAGE AREA.--571 mi<sup>2</sup> (revised).

PERIOD OF RECORD.--March 1993 to September 1995, April 2001 to August 2004 (discontinued). For a complete listing of historical data available for this site, see <a href="http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06753990">http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06753990</a>

REVISED RECORDS.--WDR CO-95-1: 1994. WDR CO-04-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,630 ft above NGVD of 1929, from topographic map.

REMARKS .-- Records poor. Natural flow effected by diversions upstream to New Poudre Irrigation Company.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.30	0.17	e0.33	e0.44	e0.90	e0.35	0.52	0.00	1.5	2.3	0.56	0.91
2	0.26	0.16	e0.34	e0.44	e0.91	e0.35	0.31	0.00	1.4	2.7	0.34	1.4
3	0.20	0.18	e0.34	e0.44	e0.90	e0.34	0.36	0.00	1.9	2.0	0.75	1.1
4	0.21	0.15	e0.35	e0.44	e0.89	e0.32	0.41	0.00	1.6	1.9	1.1	0.56
5	0.18	0.14	e0.34	e0.44	e0.80	e0.31	0.35	0.00	1.2	2.2	0.86	0.74
6	0.19	0.13	e0.36	e0.44	e0.72	e0.31	0.21	0.00	1.2	1.9	0.21	0.11
7	0.20	0.13	e0.37	e0.44	e0.64	e0.30	0.13	14	1.1	0.76	0.18	0.16
8	0.34	0.12	e0.39	e0.44	e0.56	e0.30	0.17	4.8	0.90	0.68	0.35	0.09
9 10	0.46	0.14	e0.41	e0.44	e0.48	e0.29	0.26	0.09	0.50	1.0	0.60	
	0.37	0.14	e0.43	e0.44	e0.43	e0.29	0.37	0.10	0.26	1.5	6.7	0.76
11	0.13	0.14	e0.45	e0.45	e0.42	e0.28	0.22	0.14	0.26	0.98	13	0.58
12	0.17	0.12	e0.47	e0.45	e0.42	0.31	0.19	1.4	0.25	0.56	0.99	1.4
13 14	0.15	0.17	e0.50 e0.52	e0.45	e0.42	0.28	0.17	2.7 1.4	0.95 1.4	0.57	0.43 0.29	0.86
15	0.14 0.13	0.16 0.18	e0.52 e0.54	e0.45 e0.45	e0.41 e0.40	0.19 0.20	0.16 0.09	1.4	0.85	1.0 0.78	0.29	1.0 0.59
16	0.11	e0.18	e0.56	e0.44	e0.40	0.27	0.00	0.31	0.46	0.89	0.05	0.69
17	0.12	e0.19	e0.58	e0.44	e0.39	0.26	0.00	0.02	1.2	0.69	0.65	0.04
18 19	0.11	e0.20	e0.59	e0.44	e0.38	0.19	0.00	0.00	2.5 2.9	0.39	2.4	0.05
20	0.11 0.08	e0.21 e0.21	e0.58 e0.58	e0.44 e0.45	e0.38 e0.38	0.23 0.19	0.00 0.00	0.38 0.21	3.2	0.42 0.97	2.2 1.1	0.19 0.39
21	0.08	e0.22	e0.56	e0.45	e0.38	0.20	0.00	0.83	3.8	2.2	0.22	0.00
22	0.06	e0.23	e0.54	e0.45	e0.38	0.29	0.00	0.25	3.6	2.1	0.44	0.00
23 24	0.08	e0.23 e0.24	e0.53 e0.51	e0.45 e0.46	e0.38 e0.37	0.28 0.23	$0.00 \\ 0.00$	1.7 1.2	2.7 1.5	1.4 0.91	0.23 0.78	2.7
25	0.08 0.07	e0.24 e0.25	e0.50	e0.48	e0.37	0.23	0.00	0.08	1.8	0.91	0.78	26 13
26 27	0.12 0.14	e0.27 e0.29	e0.49 e0.48	e0.52 e0.56	e0.36 e0.36	0.51 0.62	0.00	1.4 1.9	1.5 1.9	0.30 0.43	1.5 1.2	3.8 3.9
28	0.14	e0.29	e0.48	e0.56	e0.36	0.62	0.00	2.2	1.5	1.4	0.23	2.9
20 29	0.15	e0.30	e0.47	e0.00	e0.36	0.41	0.00	1.7	1.3	1.4	0.23	
30	0.10	e0.31	e0.45	e0.72		0.54	0.00	0.96	2.3	1.7	0.10	47
31	0.14		e0.44	e0.90		0.66		1.6		0.51	0.45	
TOTAL	5.17	5.88	14.46	15.35	14.55	9.89	3.92	40.47	47.33	37.28	39.20	143.10
MEAN	0.17	0.20	0.47	0.50	0.50	0.32	0.13	1.31	1.58	1.20	1.26	
MAX	0.46	0.32	0.59	0.90	0.91	0.66	0.52	14	3.8	2.7	13	47
MIN	0.06	0.12	0.33	0.44	0.36	0.19	0.00	0.00	0.25	0.30	0.05	0.00
AC-FT	10	12	29	30	29	20	7.8	80	94	74	78	284
TZITATZ	ICS OF MO	NTHI V MEA	N DATA FO	OR WATER	VFARS 1993	- 2004 BY V	WATER YEA	R (WY)				
								, ,	20.4	45.0	4.00	0.45
MEAN	3.94	4.16	3.29	2.85	2.51	2.54	2.54	13.1	20.4	17.2	4.89	9.15
MAX (WY)	11.8 (1994)	9.97 (1994)	8.10 (1994)	6.79 (1994)	6.52 (1994)	7.27 (1994)	5.63 (1993)	35.0 (1993)	52.2 (1995)	70.7 (1995)	12.7 (1995)	28.7 (1995)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.30	1.58	1.20	0.10	0.00
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)	(2002)	(2004)	(2004)	(2002)	(2002)
(11.2)	(2005)	(2002)	(2002)	, ,	, ,	, ,	, , ,		, ,		, í	
SUMMAI	RY STATIST	ΓICS		FOR 2003 (	CALENDAR	YEAR	FOR 20	04 WATER Y	EAR	WATER	R YEARS	1993 - 2004
ANNUAL					7.39		3	76.60				
ANNUAL					2.60			1.03			6.57	
	ANNUAL										17.9	1995
	ANNUAL N			_		10		47 0	20		1.03	2004
	DAILY ME				6 Jun 0.00 Jan				p 30		250 a0.00	May 29, 1993
	DAILY ME	AN AY MINIMUI	M		0.00 Jan 0.00 Jan				r 16 r 16		0.00	May 8, 2002 Aug 30, 2002
	JM PEAK FI		V1		0.00 Jan				g 10	h	429	May 28, 1993
	JM PEAK ST								g 10 g 10	U	10.85	May 28, 1993
	RUNOFF (			1,88	0		7	47	J - ~	4.	760	,,,,
	ENT EXCEE				6.6		·	1.7		.,	12	
	ENT EXCEE				0.23			0.41			1.8	
90 PERCI	ENT EXCEE	DS			0.00			0.09			0.00	

a No flow many days in 2002, 2003, 2004.
b On basis of indirect measurement of peak flow.

#### 06754000 SOUTH PLATTE RIVER NEAR KERSEY, CO

LOCATION.--Lat  $40^{\circ}24'42''$ , long  $104^{\circ}33'42''$ , in  $NW^{1}_{4}SW^{1}_{4}$  sec.9, T.5 N., R.64W., Weld County, Hydrologic Unit 10190003, on downstream side of bridge on State Highway 37, 1.9 mi north of railroad in Kersey, and 2.5 mi downstream from Cache la Poudre River.

DRAINAGE AREA --9 659 mi<sup>2</sup>

PERIOD OF RECORD.--May 1901 to December 1903, March 1905 to current year. Monthly discharge only for some periods, published in WSP 1310. Published as "at Kersey" 1901-03. Statistical summary computed for 1976 to current year, subsequent to completion of Chatfield Dam. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06754000

REVISED RECORDS.--WSP 1310: 1902, 1906, 1935(M). WDR CO-03-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 4,575.77 ft above NGVD of 1929. See WSP 1710 or 1730 for history of changes prior to July 3,

REMARKS.—Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain and transbasin diversions, storage reservoirs, power developments, ground—water withdrawals and diversions for irrigation of about 888,000 acres, and return flow from irrigated areas. Water-quality data has been collected at this site as part of the South Platte River Basin National Water-Quality Assessment Program and is available at http://waterdata.usgs.gov/co/nwis/ inventory/?site\_no=06754000

COOPERATION .-- Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

#### DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES NOV JUN SEP DAY OCT DEC JAN FEB MAR APR MAY JUL AUG 52.1 307 748 175 127 227 493 8 1.250 1,680 1,120 238 1,280 1,570 1.080 e4,670 e1,770 23 24 1,010 e910 234 e647 550 1,370 1,150 1,080 1,370 1.160 3,940 1,010 27 307 2 250 1,010 1.360 1,060 1,660 1,280 \_\_\_ TOTAL 11,625 19 841 17 091 15,079 17,226 16,578 12,815 12,896 13,592 17,680 18,693 17,707 MEAN MAX 1,250 1,680 1,570 3,940 4,670 1,660 MIN AC-FT 25,580 23,060 39,350 33,900 29.910 34,170 32.880 25,420 26,960 35,070 37,080 35,120 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2004, BY WATER YEAR (WY) MEAN 1.025 2.282 3.009 3,388 2,585 1,337 1,434 1.641 1,852 3,894 13,060 14,520 5,784 2,783 2,079 MAX (1984) (WY) (1985)(1985)(1985)(1984)(1983)(1983)(1980)(1983)(1983)(1984)(1984)MIN 85.5 (1978)(WY) (2003)(1978)(2003)(2004)(1982)(1982)(2002)(1977)(2002)(2002)(2002)FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR SUMMARY STATISTICS WATER YEARS 1976 - 2004 ANNUAL TOTAL 232,358 190,823 ANNUAL MEAN a1,164 HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN 3,631 395 May 31, 1995 HIGHEST DAILY MEAN 4,330 Jun e4,670 Aug 20 b21,500 LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM Aug 25 Jun 7 c57 May 5, 2002 Apr 25, 1982 Aug 22 Jun 6,850 May 31, 1995 MAXIMUM PEAK FLOW d22,900 Aug 20 MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) Aug 20 8 30 f11 00 May 31, 1995 460,900 378,500 843,600 10 PERCENT EXCEEDS 1,150 1,900 50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

Estimated.

Average discharge for 71 years (water years 1902-03, 1906-74), 777 ft<sup>3</sup>/s; 562,900 acre-ft/yr, prior to completion of Chatfield Dam. Maximum daily discharge for period of record, 31,000 ft<sup>3</sup>/s, Jun 7, 1921.

Minimum daily discharge for period of record, 28 ft<sup>3</sup>/s, Apr 30, 1955.

Maximum discharge and stage for period of record, 31,500 ft<sup>3</sup>/s. May 8, 1973, gage height, 11.73 ft. h

Maximum gage height for statistical period, 11.50 ft, May 1, 1999.

#### 06758500 SOUTH PLATTE RIVER NEAR WELDONA, CO

 $LOCATION.--Lat~40^{\circ}19'19", long~103^{\circ}55'17", in~SW^{1}_{4}SW^{1}_{/4}~sec.7, T.4~N., R.58~W., Morgan~County, Hydrologic~Unit~10190003, on left bank~500~ft~downstream~from~bridge~on~State~Highway~144, 2.8~mi~southeast~of~Weldona,~and~4.2~mi~upstream~from~Bijou~Creek.$ 

DRAINAGE AREA.--13,190 mi<sup>2</sup>.

PERIOD OF RECORD.—October 1952 to current year. Statistical summary computed for 1976 to current year, subsequent to completion of Chatfield Dam. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06758500

REVISED RECORDS .-- WSP 1710: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 4,307.80 ft above NGVD of 1929. Prior to May 2, 1991, gage located 100 ft upstream, at same datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain and transbasin diversions, storage reservoirs, power developments, ground-water withdrawals, and diversions for irrigation, and return flow from irrigated areas.

COOPERATION .-- Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

		SCHARGE, CUBIC F YEAR OCTOBER 20 DAILY MEAN	03 TO SEPTEMBEI				
DAY OCT NOV	DEC JAN	FEB MAR	APR 1	MAY JUN	JUL	AUG	SEP
1 172 402 2 168 243 3 165 197 4 188 175 5 236 158	115 167 158 168 171 177 165 172 153 175	190 260 189 255 189 261 211 257 249 307	309 262 194 168 220	267 228 440 188 802 150 669 148 482 174	563 488 382 293 151	417 342 241 191 223	281 256 189 220 286
6 256 134 7 274 113 8 270 98 9 255 96 10 252 95	139 117 133 357 134 e390 134 e420 134 e400	247 377 249 413 246 459 248 456 250 418	240 156 143 138 148	303 159 158 139 114 e104 135 103 196 116	154 e129 131 184 228	163 127 97 105 124	393 444 425 379 293
11     238     92       12     224     96       13     209     103       14     190     104       15     160     116	131 e330 129 e270 117 e230 109 215 116 208	250 345 243 306 244 276 246 264 252 258	246 805 574 330 322	219 138 201 270 232 238 547 187 1,230 149	210 186 178 172 166	130 137 204 157 121	228 204 215 223 249
16     181     116       17     220     114       18     227     105       19     215     107       20     195     105	121 201 109 195 114 190 110 185 109 184	254 251 278 248 313 244 317 241 314 247	358 336 282 233 207	801 141 520 144 437 175 365 282 310 709	215 224 223 303 215	93 105 200 261 476	250 246 258 271 267
21 180 101 22 171 99 23 168 105 24 153 108 25 141 101	111 184 190 185 192 187 186 188 182 190	312     240       312     223       318     209       316     222       313     292	177 175 199 322 713	287 951 308 509 297 493 317 542 305 386	355 436 391 414 792	1,930 672 360 397 319	287 357 489 623 505
26 147 115 27 149 122 28 153 115 29 185 110 30 208 108 31 241	176 186 174 191 180 190 185 190 172 192 164 194	286 374 262 346 257 334 259 316 289 254	612 373 267 235 223	289 314 341 332 328 354 286 367 279 774 253	1,910 1,090 410 330 382 527	306 355 382 692 731 382	562 575 606 639 953
MEAN 200 128 MAX 274 402 MIN 141 92	4,513     6,828       146     220       192     420       109     117       8,950     13,540	7,614 9,242 263 298 318 459 189 209 15,100 18,330	299 805 138	1,718 8,964 378 299 1,230 951 114 103 23,240 17,780	11,832 382 1,910 129 23,470	10,440 337 1,930 93 20,710	11,173 372 953 189 22,160
STATISTICS OF MONTHLY MEAN			•	*			
MEAN 529 486 MAX 3,119 2,298 (WY) (1985) (1985) MIN 134 100 (WY) (1977) (1977)	560 694 1,266 1,443 (1986) (1984) 90.7 166 (2003) (2003)	648 513 1,562 1,494 (1984) (1983) 225 132 (2003) (1978)	3,226 1 (1983) ( 119	1,679     2,220       0,130     12,310       1980)     (1983)       183     101       1981)     (1977)	732 5,121 (1995) 173 (2002)	610 2,208 (1984) 77.5 (2002)	641 2,118 (1984) 107 (2002)
SUMMARY STATISTICS	FOR 2003 CA	ALENDAR YEAR	FOR 2004 W	ATER YEAR	WATER	YEARS 1976	- 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE	123,334 338 2,220 92 98	Jun 3 Nov 11 Nov 8	101,335 277 1,930 92 98 2,520 4.83	Aug 21 Nov 11 Nov 8 Aug 21 5 Aug 21	2,9 e,b16,3 d18,4	228 Apr 30 Apr 400 May 10.42 May	1983 2002 n 11, 1995 r 7, 1999 r 3, 1999 r 3, 1999 r 3, 1999
ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS	244,600 794 220		201,000 464 229		606,300 1,460 441 149		

90 PERCENT EXCEEDS

149

Average discharge for 22 years (water years 1953-74), 572 ft<sup>3</sup>/s; 414,400 acre-ft/yr, prior to completion of Chatfield Dam.

Maximum daily discharge for period of record, 20,800 ft<sup>3</sup>/s, May 9, 1973.

Also occurred Apr 14, 2002.

d Maximum discharge and stage for period of record, 26,800 ft<sup>3</sup>/s, May 8, 1973, gage height, 11.68 ft, from rating curve extended above 16,000 ft<sup>3</sup>/s.

#### 06759500 SOUTH PLATTE RIVER AT FORT MORGAN, CO

LOCATION.--Lat  $40^{\circ}16'07''$ , long  $103^{\circ}47'56''$ , in SW  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.31, T.4 N., R.57 W., Morgan County, Hydrologic Unit 10190012, on right bank 0.1 mi downstream from bridge on State Highway 52, 0.3 mi north of Interstate Highway 76, and 0.7 mi north of Fort Morgan.

DRAINAGE AREA.--14,627 mi<sup>2</sup>.

PERIOD OF RECORD.--November 1943 to September 1958, December 2001 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06759500

REVISED RECORDS.--WDR CO-03-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,260 ft above NGVD of 1929, from topographic map. Prior to Dec. 7, 2001, at site 0.1 mi upstream at different datum.

REMARKS.--No estimated daily discharges. Records fair. Natural flow of stream affected by transmoutain and transbasin diversions, storage reservoirs, power developments, ground-water withdrawls, and return flow from irrigated areas.

EXTREME OUTSIDE PERIOD OF RECORD.--Maximum flood known, 84,300 ft<sup>3</sup>/s, May 31, 1935, by slope-area determination of peak flow 1 mi upstream; flood came principally from Bijou Creek.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	122	428	159	248	218	257	325	186	223	578	344	278
2	134	333	198	243	210	254	301	273	189	498	321	281
3	148	265	219	266	208	250	299	568	146	410	255	164
4	161	267	228	255	236	247	283	506	130	316	196	231
5	216	261	227	234	271	265	285	350	150	152	214	309
6	242	227	197	193	266	346	306	199	148	123	173	402
7	264	199	196	303	265	410	234	88	122	120	143	456
8	241	159	208	408	281	463	195	53	99	126	122	386
9	234	154	212	406	271	430	216	69	73	150	116	312
10	224	161	198	445	265	401	226	137	115	190	123	251
11	215	150	191	410	268	329	282	179	109	191	136	199
12	224	151	191	362	248	295	707	167	222	176	145	163
13	195	159	174	307	255	274	605	191	233	167	175	184
14	189	160	192	274	274	262	287	287	177	156	143	186
15	168	172	180	262	296	253	244	918	151	144	140	224
16	153	178	170	257	320	239	272	695	125	175	123	224
17	204	184	171	253	314	229	266	437	133	199	112	226
18	218	173	172	250	314	228	213	321	180	188	187	242
19	216	170	167	243	301	226	176	261	262	211	238	246
20	203	166	165	237	299	222	146	228	525	139	285	246
21	175	162	161	237	298	231	141	233	898	256	1,590	244
22	149	152	227	234	303	228	131	262	545	368	786	308
23	142	132	247	230	307	212	116	249	419	384	354	435
24	128	150	244	230	306	217	174	282	470	383	355	615
25	115	160	248	227	304	240	396	292	320	521	296	528
26 27 28 29 30 31	118 144 136 153 147 180	169 181 170 172 168	247 251 260 244 248 246	219 211 224 222 217 214	292 265 256 261	340 352 348 341 334 304	458 262 137 130 166	292 311 288 258 254 237	284 258 310 315 693	1,560 1,290 388 303 374 406	302 373 418 575 749 405	517 556 612 629 879
TOTAL	5,558	5,733	6,438	8,321	7,972	9,027	7,979	9,071	8,024	10,642	9,894	10,533
MEAN	179	191	208	268	275	291	266	293	267	343	319	351
MAX	264	428	260	445	320	463	707	918	898	1,560	1,590	879
MIN	115	132	159	193	208	212	116	53	73	120	112	163
AC-FT	11,020	11,370	12,770	16,500	15,810	17,910	15,830	17,990	15,920	21,110	19,620	20,890
				R WATER YE				, ,	1.044	220	20.4	220
MEAN	223	231	271	336	318	366	363	930	1,244	329	294	220
MAX	527	521	770	686	829	1,319	969	5,082	7,615	1,351	874	362
(WY)	(1948)	(1946)	(1958)	(1946)	(1948)	(1948)	(1958)	(1958)	(1949)	(1947)	(1951)	(1957)
MIN	91.3	136	124	183	160	166	150	110	108	129	82.5	71.8
(WY)	(1951)	(1955)	(1951)	(1956)	(1956)	(1957)	(2002)	(1954)	(2002)	(1954)	(2002)	(2002)
SUMMAI	RY STATIST	ICS		FOR 2003 CA	LENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 194	4 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			1	120,421 330 2,380 64 111 238,900 710 236 140	Jun May Sep	8	11 2,21	71 00 Aug 13 May 7 Jun 10 Aug 10 Aug 10 Aug 10 8	8 1 5 3 21	16, a33,, 318,	25 O 28 O 800 Au 512.90 Au	1958 1954 in 16, 1949 ct 7, 1956 ct 4, 1956 ig 3, 1951 g 3, 1951

a From rating curve extended above 15,000 ft<sup>3</sup>/s.

b Site and datum then in use.

#### 06764000 SOUTH PLATTE RIVER AT JULESBURG, CO

LOCATION.--Lat 40°58'46", long 102°15'15", in NW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> and NE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> (three channels) sec.33, T.12 N., R.44 W., Sedgwick County, Hydrologic Unit 10190018, on left bank of channel no. 4 (left channel) 215 ft downstream from bridge, on right bank of channel no. 2, 5 ft downstream from bridge on U.S. Highway 385, and on left bank of channel no. 1, 5 ft upstream from bridge on U.S. Highway 385, 0.9 mi southeast of Julesburg, 3.0 mi upstream from Colorado-Nebraska State line, and 8 mi downstream from Lodgepole Creek.

DRAINAGE AREA.--22,821 mi<sup>2</sup>

PERIOD OF RECORD.--April 1902 to current year. Monthly discharge only for some periods, published in WSP 1310. Published as "near Julesburg" 1903-8, 1915-16, and as "at Ovid" 1922-24. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=06764000

REVISED RECORDS.--WSP 1310: 1902, 1906-7, 1948(P). WSP 1440: 1903-4. WDR CO-03-1: Drainage area.

GAGE.--Three water-stage recorders with satellite telemetry. Datum of channel no. 4 gage is 3,446.76 ft above NGVD of 1929. See WSP 1710 or 1730 for history of changes prior to Oct. 1, 1956. Since Oct. 1, 1956, water-stage recorders on channels nos. 2 and 4. Channel no. 2: Oct. 1, 1956 to Sept. 22, 1965, at site 300 ft downstream at present datum. Channel no. 4: Oct. 1, 1956 to Dec. 10, 1958, at site 135 ft downstream at present datum. Since May 11, 1973, supplementary water-stage recorder on channel no. 2 at bridge 800 ft upstream at same datum. Since Aug. 16, 1996, water-stage recorder on channel no. 1; satellite telemetry installed Oct. 24, 1996.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation of about 1,200,000 acres upstream from station, and return flow from irrigated areas.

COOPERATION .-- Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

#### DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES DAY OCT NOV DEC JUN JUL AUG SEP FEB APR JAN MAR MAY 23 48 e120 43 2.5 83 24 59 16 37 40 26 81 23 22 23 63 46 e110 19 37 44 39 2.5 24 23 23 24 85 70 45 e90 19 35 40 38 $\frac{1}{2}$ 25 24 21 47 34 39 81 e70 e90 20 37 5 29 28 77 21 e25 e70 49 22 31 39 28 e80 27 24 21 20 47 6 66 37 27 e70 e80 22 21 30 28 25 35 39 28 42 30 58 e80 e70 8 53 21 e80 50 26 24 27 38 21 e50 25 25 22 20 48 e90 e50 44 10 46 23 23 73 51 31 27 28 76 48 20 e47 11 49 22 38 79 51 33 28 33 25 90 41 24 22 23 62 43 84 42 30 27 32 25 44 37 12 21 41 36 e27 24 32 25 39 39 23 43 85 e26 24 23 32 32 25 25 25 e42 41 $\frac{27}{21}$ 34 15 53 35 39 44 80 e50 e25 20 38 72 e25 23 32 31 36 35 40 16 41 e50 46 20 45 67 e50 e24 25 33 40 38 30 42 17 30 28 36 30 18 36 20 48 66 e50 e23 2.1 45 28 40 20 19 30 e22 48 39 19 29 45 65 e50 25 20 52 23 24 29 29 39 20 62 e50 e21 48 21 24 20 54 61 e50 e20 22 21 25 27 43 20 17 e50 e50 21 22 24 27 56 58 22 23 19 53 55 56 54 e20 38 39 59 52 25 24 e20 e19 24 19 59 53 e50 46 21 32 24 60 e23 18 25 52 22 35 33 19 31 60 e50 17 38 51 58 21 60 e48 18 32 e52 30 63 26 24 e50 63 34 36 e40 30 54 34 27 35 60 e50 18 e51 32 67 49 34 32 28 36 35 52 e40 e50 31 e50 69 18 29 44 30 34 39 e46 e80 30 34 27 e51 49 16 32 46 43 31 30 77 31 26 e51 47 16 ---44 28 26 TOTAL 697 1,289 2,018 1,424 1,240 794 1,023 1,172 1,132 1,012 1,189 1.416 MEAN 45.7 23.2 41.6 65.1 49.1 40.0 26.5 33.0 39.1 36.5 32.6 39.6 77 MAX 85 36 60 90 80 120 46 63 59 90 48 19 40 MIN 17 22 36 16 16 21 24 22 23 20 2,560 4,000 2,250 2,010 AC-FT 2,810 1,380 2,820 2,460 1,570 2,030 2,320 2,360 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1902 - 2004, BY WATER YEAR MEAN 311 350 411 526 604 545 540 1,043 1,459 300 184 245 MAX 2,427 2,358 1.371 1,571 1,864 2,200 2,808 9.922 12,200 5.059 1,882 1,964 (1984) (WY) (1985)(1985)(1985)(1998)(1930)(1939)(1983)(1980)(1983)(1983)(1997)MIN 5.85 15 4 18 8 49 6 49 1 40 0 17 3 24 1 8 33 5.60 (1911) (1902)(1904)(2003)(1912)(2003)(2004)(2004)(1904)(1910)(1903)(1903)(WY) SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1902 - 2004 ANNUAL TOTAL 14,406 18,274 ANNUAL MEAN 50.1 39.4 HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN 2,882 1983 39.4 2004 HIGHEST DAILY MEAN 157 May 3 e120 30,800 Jun 16, 1921 Mar 1 LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW Aug 26 Mar 30 a0.00 16 Aug 18, 1902 Aug 24 14 17 Mar 26 0.00 Inl 25 1903 159 Jul 10 37,600 Jun 20, 1965 MAXIMUM PEAK STAGE c10.44 Jun 20, 1965 b3.41 Jul 10 36,250 ANNUAL RUNOFF (AC-FT) 28.570 395,600 10 PERCENT EXCEEDS 104 65 35 1,160

21

28

50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

38

e Estimated.

Also occurred Aug 19-20, 1902, and Jul 25 to Aug 7, 1903.

Gage height recorded for channel #1.

From floodmarks in gage well.

## ARKANSAS RIVER BASIN

#### 07079300 EAST FORK ARKANSAS RIVER AT HIGHWAY 24 NEAR LEADVILLE, CO

 $LOCATION.--Lat~39°16'21", long~106°18'21", in~NW^{1}{}_{\!\!\!/}4NW^{1}{}_{\!\!\!/}4~sec.14, T.9~S., R.80~W., Lake~County, Hydrologic~Unit~11020001, on~right~bank~20~ft~downstream~from~U.S.~Highway~24, 0.4~mi~downstream~from~Leadville~Mine~drainage~tunnel, 1.5~mi~northwest~of~Leadville, and~2.2~mi~upstream~from~Tennessee~Creek.$ 

DRAINAGE AREA.--49.9 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1990 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=07079300

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,900 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions (see elsewhere in this

					R YEAR OC		ET PER SECO TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	19 19 22 21 20	13 13 14 13 e13	12 12 e11 e11 e11	e10 10 10 e10 e10	11 e11 e11 e10 e10	e9.6 e9.4 e9.3 e9.2 9.4	11 11 11 12 13	18 18 19 22 26	78 83 88 104 117	89 79 70 60 56	22 23 26 30 25	17 17 16 16 16
6 7 8 9 10	20 19 19 18 18	13 13 13 13 13	11 11 11 e11 e11	e10 e10 10 e9.5 e9.8	e10 e10 9.9 e10 e9.8	9.5 9.6 e9.2 e9.0 9.7	13 13 13 13 12	33 40 48 51 56	142 170 172 171 164	54 52 50 49 48	21 20 19 19	17 16 16 16 16
11 12 13 14 15	18 17 16 16 16	13 13 13 13 13	11 e11 e11 11 e11	e10 e10 e10 e10 e10	e9.7 e9.5 e9.5 e9.5 e9.5	e9.2 e9.2 9.6 9.5 9.0	12 12 13 13 12	65 63 54 48 45	123 102 90 97 105	47 45 44 43 50	19 19 19 20 19	15 15 15 15 15
16 17 18 19 20	16 15 16 15 15	e13 13 13 e13 13	e11 e11 e10 e10	10 e10 e10 e10 10	9.6 e9.7 9.9 10 9.9	9.0 8.9 e9.3 11	12 12 13 13 14	45 46 48 71 95	96 91 88 84 81	54 80 69 57 52	18 18 17 20 21	14 14 14 14
21 22 23 24 25	15 14 14 14 14	13 e13 e13 e13 13	10 e10 e10 e10 e10	e10 e10 e10 e10 e10	10 10 10 10 9.8	13 12 12 12 12	14 14 14 14 16	104 107 95 94 95	78 76 65 61 56	50 46 43 43 37	21 21 21 21 19	15 15 15 15 15
26 27 28 29 30 31	13 14 14 13 13 13	13 e13 e12 e12 12	e10 e10 e10 e10 10	e10 e10 10 10 10	e9.8 9.8 9.8 9.8 	12 11 11 e11 11	16 16 17 17 18	90 99 106 125 100 83	67 65 60 58 85	40 43 37 32 27 24	19 18 18 17 18 17	15 15 15 15 15
TOTAL MEAN MAX MIN AC-FT	506 16.3 22 13 1,000	388 12.9 14 12 770	329 10.6 12 10 653	310.3 10.0 11 9.5 615	288.5 9.95 11 9.5 572	318.6 10.3 13 8.9 632	404 13.5 18 11 801	2,009 64.8 125 18 3,980	2,917 97.2 172 56 5,790	1,570 50.6 89 24 3,110	624 20.1 30 17 1,240	458 15.3 17 14 908
STATISTI MEAN	ICS OF MON 18.4	NTHLY MEA 14.3	N DATA FC 11.9	OR WATER Y 10.3	EARS 1990 9.92	- 2004, BY W 10.1	VATER YEA 13.8	R (WY) 92.9	199	85.6	37.3	23.8
MAX (WY) MIN (WY)	23.4 (2000) 12.1 (2003)	18.1 (1996) 10.8 (1992)	15.4 (1996) 9.51 (2003)	13.0 (1996) 8.61 (2003)	13.3 (1997) 7.10 (1993)	13.0 (1997) 7.47 (2003)	19.8 (1996) 10.5 (1993)	205 (1996) 38.4 (1995)	404 (1996) 39.0 (2002)	266 (1995) 14.7 (2002)	75.1 (1995) 10.8 (2002)	32.2 (1995) 10.9 (2002)
SUMMAR	RY STATIST	ICS		FOR 2003 C	ALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 1990	- 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			М	460 e6 e6 26,260 89	5.3 0 May 5.5 Mar 6.6 Mar	6	2 20,00	72 Jur 8.9 Mar 9.2 Mar 13 Jur 3.40 Jur		a1,0 32,	6.0 Dec e6.6 Ma 010 Jun b4.23 Jun	1996 2002 n. 8, 1997 c. 9, 1994 r. 4, 2003 n. 8, 1997 n. 8, 1997

e Estimated.

a From rating curve extended above 517 ft<sup>3</sup>/s. b Maximum gage height, 4.41 ft, Jun 26, 1999.

#### 07081200 ARKANSAS RIVER NEAR LEADVILLE, CO

 $LOCATION. -- Lat~ 39^{\circ}15'26", long~ 106^{\circ}20'35", in~NW^{1}_{4}NW^{1}_{4} sec. 21, T.9~S., R.80~W., Lake~County, Hydrologic~Unit~ 11020001, on~ right~bank~500~ft~downstream~from~confluence~of~East~Fork~Arkansas~River~and~Tennessee~Creek,~0.5~mi~downstream~from~highway~bridge,~and~2.8~mi~northwest~of~Leadville.$ 

DRAINAGE AREA.--98.8 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1967 to September 1983, April 1990 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07081200

REVISED RECORDS .-- WDR CO-91-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,730 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions (see elsewhere in this report) and diversions for irrigation and municipal use.

				YEAR OC	TOBER 2003	TO SEPTEM					
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
23 22 26 26 25	16 17 20 17 16	18 17 16 16	e16 18 17 e16 e15	e13 e14 e13 14 e14	e13 e12 e13 e12	34 36 33 30 36	47 49 58 72 83	124 126 136 157 173	123 102 91 81 77	35 35 38 40 36	22 21 20 20 22
24 23 23 22 22	16 17 18 17 18	18 18 18 e17 e16	e16 18 17 16 e15	e13 e13 13 e12 e12	13 13 13 13 14	37 36 39 41 34	103 117 129 134 132	202 232 237 233 227	77 73 73 70 71	32 31 29 26 24	22 21 20 20 20
23 21 20 19	17 16 18 18	17 e16 e16 18 17	e15 e15 e15 e15 e15	e13 e12 e12 e13 e12	14 15 15 16 15	33 33 34 38 37	153 149 122 106 96	182 154 138 141 153	69 66 64 63 72	24 24 22 23 22	20 19 19 18 18
19 19 19 19	16 17 17 17 17	e16 e16 17 e16 17	16 e15 e15 e15	e12 e12 13 13 12	14 15 16 20 22	38 43 46 42 41	95 102 103 136 168	147 139 139 133 125	75 104 96 82 75	22 25 27 39 40	18 18 17 20 21
18 18 17 17	17 17 e16 e15 16	17 e16 e16 e16 17	e15 e15 e15 e14 e15	12 13 13 13 13	24 24 24 30 33	40 39 38 38 43	179 176 151 149 150	125 123 104 95 89	70 65 64 68 59	36 35 35 32 29	23 25 24 23 22
16 17 17 17 17 17	16 e15 e15 16 17	e16 16 e15 e15 17 17	e15 e14 14 14 14 14	e12 13 13 13 	38 36 28 e26 27 28	44 47 49 50 51	143 150 156 181 155 134	102 104 97 93 125	57 62 55 48 43 38	27 27 25 24 24 22	22 22 21 22 23
619 20.0 26 16 ,230	503 16.8 20 15 998	514 16.6 18 15 1,020	474 15.3 18 14 940	370 12.8 14 12 734	609 19.6 38 12 1,210	1,180 39.3 51 30 2,340	3,878 125 181 47 7,690	4,355 145 237 89 8,640	2,233 72.0 123 38 4,430	910 29.4 40 22 1,800	623 20.8 25 17 1,240
					,		` /	220	120	50.2	33.9
38.3 1971) 16.5 1978)	21.0 28.9 (1971) 11.6 (1977)	21.7 (1983) 11.6 (1978)	14.7 19.0 (1996) 9.15 (1977)	20.5 (1973) 7.93 (1978)	20.8 (1971) 8.82 (1974)	52.9 (1989) 12.7 (1970)	412 (1996) 55.3 (1981)	707 (1997) 72.7 (2002)	382 (1995) 23.8 (2002)	138 (1997) 12.4 (2002)	55.8 (1982) 14.8 (2002)
TATISTIC	CS		FOR 2003 CA	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 1968	3 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS			751 e11 e12 43,910 164 22	May Jan	22	23 e1 e1 26 32,27	7 Jun 2 Fet 2 Fet 6 Jun 3.21 Jun 55	9 9 1 8	1,1 b1,3 52,4	29.5 120 Jui a7.0 Fel 7.0 Fel 360 Jui c4.38 Jui 140 199 25	1997 2002 n 8, 1997 b 3, 1978 b 3, 1978 n 9, 1997 n 9, 1997
	23 22 26 26 26 27 28 29 20 21 20 19 19 19 19 19 19 19 19 19 19	23 16 22 17 26 20 26 17 25 16 24 16 23 17 23 18 22 17 23 18 22 17 22 18 23 17 21 16 20 18 19 18 19 16 19 17 19 17 19 17 19 17 19 17 19 17 18 17 17 e16 17 e15 16 16 16 17 e15 17 e16 17 e15 17 16 18 17 17 e16 17 e15 17 16 18 17 18 17 17 e16 18 17 19 17 19 17 19 17 19 17 18 17 19 17 19 17 19 17 19 17 18 17 19 17 19 17 18 17 19 17 19 17 19 17 18 17 19 17 19 17 18 17 19 17 19 17 18 17 19 17 19 17 18 17 19 17 19 17 18 17 19 17 19 17 18 17 19 17 19 17 19 17 10 16 11 16 11 16 11 16 12 11 13 20 14 21 15 230 16 28 17 28 18 28 19 29 19 10 19 10 19 10 19 10 10 11	23	OCT NOV DEC JAN  23	OCT NOV DEC JAN FEB  23	DCT NOV DEC JAN FEB MAR  23 16 18 e16 e13 e13 22 17 17 18 e14 e12 26 20 16 17 e13 e13 26 17 16 e16 e16 14 e12 25 16 18 8 e16 e13 13 23 17 18 18 e18 e13 13 23 17 18 18 e18 e13 13 23 18 18 18 17 13 13 23 18 18 18 17 13 13 22 17 e17 16 e16 e15 e12 14 21 16 e16 e15 e12 15 22 18 e16 e15 e12 14 23 17 17 e15 e13 14 21 16 e16 e15 e12 15 21 16 e16 e15 e12 15 21 16 e16 e15 e12 15 21 17 e17 e15 e13 14 21 16 e16 e15 e12 15 21 17 e17 e15 e13 16 21 19 18 18 e15 e13 16 21 19 18 18 e15 e13 16 21 19 18 18 17 e15 e12 15 21 19 10 e16 e16 e15 e12 15 21 19 10 e16 e16 e15 e12 2 15 21 19 17 e16 e15 e12 15 22 18 e16 e15 e12 15 23 17 17 e15 e13 16 24 17 e15 e13 16 25 e12 15 26 17 e17 e17 e18 e18 e18 e18 e19	WATER YEAR OCTOBER 2003 TO SEPTEM DAILY MEAN VALUES	DCT NOV DEC   JAN   FEB   MAR   APR   MAY	NOV   DEC   JAN   FEB   MAR   APR   MAY   JUN	WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004   DAILY MEAN VALUES	Note

e Estimated.

<sup>Also occurred Feb 4-20, 1978.
From rating curve extended above 964 ft<sup>3</sup>/s.
Maximum gage height, 4.47 ft, Jun 15, 1978.</sup> 

#### 391504106225200 DINERO MINE DRAINAGE TUNNEL BELOW TURQUOISE LAKE NEAR LEADVILLE, CO

LOCATION.--Lat 39°15′04", long 106°22′52", in NW  $^{1}_{4}$ SW  $^{1}_{4}$  sec.19, T.9 S., R.80 W., Lake County, Hydrologic Unit 11020001, on left bank 8 ft downstream from mine drainage tunnel, 0.5 mi southwest of Sugarloaf Dam, and 4.5 mi west of Leadville.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--March 2003 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=391504106225200

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,800 ft above NAVD of 1988, from topographic map.

REMARKS .-- Records poor. Flow consists entirely of discharge from the Dinero Mine Drainage Tunnel.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum discharge, 0.24 ft<sup>3</sup>/s, Aug. 2, 3, 2003, gage height, 10.39 ft; maximum gage height, 10.42 ft, June 2, 2004 (backwater from debris); minimum daily, 0.11 ft<sup>3</sup>/s, on many days in 2003.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 0.21 ft<sup>3</sup>/s, Apr. 27, 28, gage height, 10.38 ft; maximum gage height, 10.42 ft, June 2 (backwater from debris); minimum daily, 0.13 ft<sup>3</sup>/s, on many days.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3	0.17 0.17	0.16 0.16	0.14 0.14	0.14 0.14	0.16 0.16	0.13 0.13	0.14 0.14	0.17 0.16	0.16 e0.16			
	0.17	0.16	0.14	0.14	0.16	0.13	0.14	0.16				
4 5	0.17 0.17	0.16 0.16	0.14 0.15	0.14 0.14	0.16 0.16	0.14 0.14	0.14 0.14	0.16 0.16				
6 7	0.16 0.16	0.16 0.16	0.16 0.16	0.14 0.14	0.16 0.16	0.14 0.14	0.14 0.15	0.15 0.14				
8	0.16	0.16	0.16	0.14	0.16	0.14	0.15	0.14				
9	0.16	0.16	0.16	0.14	0.16	0.15	0.17	0.13				
10	0.16	0.16	0.16	0.14	0.16	0.16	0.17	0.13				
11	0.15	0.15	0.16	0.14	0.16	0.16	0.19	0.14				
12	0.15	0.14	0.16	0.14	0.15	0.16	0.19	0.14				
13	0.14	0.15	0.16	0.14	0.14	0.15	0.18	0.14				
14	0.15	0.16	0.16	0.14	0.14	0.15	0.17	0.14				
15	0.16	0.16	0.16	0.14	0.14	0.16	0.17	0.14				
16	0.15	0.16	0.15	0.14	0.14	0.16	0.17	0.14				
17	0.14	0.16	0.14	0.14	0.14	0.16	0.17	0.14				
18	0.14	0.15	0.14	0.15	0.14	0.16	0.18	0.14				
19	0.14	0.14	0.14	0.15	0.14	0.16	0.17	0.15				
20	0.14	0.15	0.14	0.15	0.14	0.16	0.17	0.15				
21	0.14	0.16	0.14	0.16	0.14	0.17	0.17	0.14				
22	0.14	0.15	0.14	0.16	0.13	0.16	0.17	0.14				
23	0.14	0.15	0.14	0.16	0.13	0.16	0.17	0.13				
24	0.14	0.14	0.14	0.16	0.13	0.16	0.17	0.13				
25	0.14	0.14	0.14	0.16	0.13	0.15	0.18	0.13				
26	0.13	0.14	0.14	0.16	0.13	0.15	0.18	0.13				
27	e0.13	0.14	0.14	0.16	0.13	0.14	0.20	0.14				
28	0.13	0.14	0.14	0.16	0.13	0.14	0.19	0.14				
29 30	0.16 0.19	0.14 0.14	0.14 0.14	0.16 0.16	0.13	0.14 0.14	0.19 0.18	0.14 0.14				
31	0.19	0.14	0.14	0.16		0.14	0.16	0.14				
TOTAL	4.71	4.56	4.56	4.59	4.21	4.63	5.05	4.43				
MEAN MAX	0.15 0.19	0.15 0.16	0.15 0.16	0.15 0.16	0.15 0.16	0.15 0.17	0.17 0.20	0.14 0.17				
MIN	0.19	0.10	0.16	0.16	0.10	0.17	0.20	0.17				
AC-FT	9.3	9.0	9.0	9.1	8.4	9.2	10	8.8				

e Estimated.

## 07083000 HALFMOON CREEK NEAR MALTA, CO (Hydrologic Benchmark station)

 $LOCATION.--Lat~39^{\circ}10'20'',~long~106^{\circ}23'19'',~in~SE^{1}/_{4}SE^{1}/_{4}~sec. 13,~T.10~S.,~R.81~W.,~Lake~County,~Hydrologic~Unit~11020001,~on~San~Isabel~National~Forest,~on~right~Sec.~13,~T.10~S.,~R.81~W.,~Lake~County,~Hydrologic~Unit~11020001,~on~San~Isabel~National~Forest,~on~right~Sec.~13,~T.10~S.,~R.81~W.,~Lake~County,~Hydrologic~Unit~11020001,~on~San~Isabel~National~Forest,~on~right~Sec.~13,~T.10~S.,~R.81~W.,~Lake~County,~Hydrologic~Unit~11020001,~on~San~Isabel~National~Forest,~on~right~Sec.~13,~T.10~S.,~R.81~W.,~Lake~County,~Hydrologic~Unit~11020001,~on~San~Isabel~National~Forest,~on~right~Sec.~13,~T.10~S.,~R.81~W.,~Lake~County,~Hydrologic~Unit~11020001,~on~San~Isabel~National~Forest,~on~right~Sec.~13,~T.10~S.,~R.81~W.,~Lake~County,~Hydrologic~Unit~11020001,~on~San~Isabel~National~Forest,~On~Touronal~Fo$ 

9.0

DRAINAGE AREA.--23.6 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1946 to current year. Meteorological data available, May 1994 to September 1995. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07083000

REVISED RECORDS.--WSP 2121: Drainage area at site 1.4 mi downstream. WRD Colo. 1968: 1967 (M). WDR CO-79-1: 1976 (M). WDR CO-80-1: 1954 (M).

bank 1.4 mi upstream from culvert on Halfmoon Campground road, 3.3 mi upstream from mouth, and 4.3 mi southwest of Malta.

GAGE.—Water-stage recorder with satellite telemetry and crest-stage gage. Concrete control since 1966. Elevation of gage is 9,830 ft above NGVD of 1929, from topographic map. Prior to Oct. 19, 1966, at sites 1.4 mi downstream at different datums.

REMARKS .-- Records good except for estimated daily discharges, which are poor.

#### DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES NOV DEC JUN ш AUG SEP DAY OCT JAN **FEB** MAR APR MAY e4.8 e4.2 e3.8 e3.3 7.5 9.8 46 6.4 e4.8 e4.3 e3.4 10 47 26 6.8 e3.7 3 15 7.3 e4.7 e4.2 e3.6 e3.5 7.3 14 55 25 e3.8 e3.5 e3.5 e3.3 7.8 7.7 21 31 4 e7.0 e4.6 67 50 24 13 e3.5 92 47 24 14 e4.6 e6.8 6 13 e7.0 e4.9 e3.7 e3.4 e3.4 7.6 44 125 50 22 12 12 7 5 e4.8 e3.9 e3.2 e3.5 7.5 54 141 47 22 11 69 e4.7 e3.4 2.1 8 11 e4.0 e3 5 8 1 63 137 45 11 e3.9 e3.3 e3.5 43 19 e4.5 8.4 126 10 11 e6.7 67 10 6.8 e4.3 e4.0 e3.6 7.8 70 43 18 11 e3.1 112 11 e6.6 e6.2 e7.5 e7.2 12 e4.0 e3.5 73 59 86 43 18 17 e4.3 e3.9 e3.0 40 10 e3.4 12 68 10 99 e6.4 e4.5 e3.9 e2.8 e3.5 e7.3 43 65 39 16 9.9 13 e2.9 39 6.3 e4.6 e3.9 16 15 9.2 e6.0 e3.0 3.5 8.7 31 90 44 15 9.5 e4.4 e4.0 9.0 e5.8 e4.0 e3.0 3.3 9.0 33 84 52 15 8.9 16 e4.1 5.9 9.7 71 8.8 e4.2 e4.0 3.7 38 76 15 17 e3.1 8.6 e5.5 e4.3 3.9 9.8 48 16 e3.9 e3.1 e4.3 19 8.3 e5.0 e3.9 69 54 51 23 21 e3.2 5.3 20 8.1 e5.3 e4.4 e3.9 8.4 84 74 14 21 7.9 e5.5 8.1 84 72 46 19 14 e4.5 e3.8 e3.3 6.1 6.9 22 7.7 e5.3 e4.3 e3.8 e3.2 7.3 78 61 43 18 12 7.5 23 e4.8 e4.3 e3.9 e3.3 7.0 e7.6 65 57 41 18 11 24 7.3 e3.9 e4.5 e4.3 e3.3 7.2 7.5 61 60 42 16 25 e3.9 7.7 7.5 15 e6.8 e4.7 e4.3 e3.3 60 36 11 63 26 e6.5 e5.0 e4.2 e3.8 e3.2 7.8 7.4 60 61 38 14 11 e6.8 7.1 e4.6 e4.2 e4.2 e4.1 e3.7 e3.8 7.5 e6.2 8.7 10 59 56 10 9.9 27 e3.4 63 75 44 37 15 14 28 e3.4 6.9 e4.4 e3.2 e6.5 80 33 14 10 e4.2 e3.8 11 6.7 e4.5 e3.9 e7.0 10 64 13 11 31 6.3 e4.4 e3.8 50 29 13 e7.2 TOTAL 298.5 175.7 137.3 121.1 94.8 149.7 247.1 1,632.8 2,329 1,417 569 328.7 5.86 MEAN 9.63 4.43 3.91 3.27 4.83 8.24 52.7 77.6 45.7 18.4 11.0 4.9 4.3 84 15 11 141 MIN 6.3 42 4.0 3.5 2.8 33 7.2 9.8 46 29 13 8.5 592 188 297 490 652 AC-FT 349 272 240 3 240 2.810 4,620 1.130 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2004, BY WATER YEAR (WY) MEAN 7 57 3.75 3 77 179 112 5 11 4 11 6.84 46.0 128 82.0 34.6 9.65 7.90 MAX 24.5 16.6 9.03 10.8 13.8 79.1 208 247 128 44.3 (WY) (1995)(1961) (1962)(1962)(1996)(1996)(1986)(1947)(1989)(1996)(1980)(1995)MIN $6.2\hat{3}$ 4.401.65 1.20 2.7041.4(WY) (1956)(1992)(1993)(1977)(1948)(1948)(1973)(1995)(2002)(2002)(2002)(1974)SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1946 - 2004 7,500.7 ANNUAL TOTAL 9,462.0 ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN 25.9 20.5 29.3 55.3 1995 12.2 2002 May 29 HIGHEST DAILY MEAN 210 141 Jun 7 410 Jul 12, 1995 LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM e2.3 Mar 17 e2.8 Feb 13 a1.1 Apr 1, 1948 Mar 27, 1948 e2.3 e3.0Mar 23 Feb 12 1.2 MAXIMUM PEAK FLOW b615 Jun 30, 1984 187 Jun c3.77 MAXIMUM PEAK STAGE 2.95 Jun 30, 1984 Jun ANNUAL RUNOFF (AC-FT) 18,770 14,880 21,230 10 PERCENT EXCEEDS 85 61 88

8 2

3.5

50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

7 1

2.6

e Estimated.

a Also occurred Apr 2, 1948.

b From rating curve extended above 254 ft<sup>3</sup>/s.

c Maximum gage height for period of record, 4.32 ft, Apr 24, 1965, backwater from ice.

#### 07083710 ARKANSAS RIVER BELOW EMPIRE GULCH NEAR MALTA, CO

LOCATION.--Lat 39°09'50", long  $106^{\circ}19'10$ ", in NE $^{1}_{4}$ SW $^{1}_{4}$  sec.22, T.10 S., R.80 W., Lake County, Hydrologic Unit 11020001, on right bank 60 feet downstream from private road bridge, 0.1 mi downstream from Empire Gulch, 0.4 mi downstream from bridge on U.S. Highway 24, 0.6 mi upstream from Dry Union Gulch, and 4.8 mi southeast of Malta.

DRAINAGE AREA.--237 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1990 to November 1993. May to September 2004 (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07083710

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,280 ft above NGVD of 1929. Prior to May 1, 2004, at site 60 ft upstream at same datum.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by storage reservoirs, transmountain diversions from Colorado River Basin (see elsewhere in this report), diversions for irrigation and municipal use, return flows from irrigated areas, and flows from sewage-treatment plants. Flow partly regulated by Turquoise Lake, on tributary upstream from station, capacity, about 129,400 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,030 ft<sup>3</sup>/s, June 24, 1993, gage height, 4.41 ft, from rating curve extended above 850 ft<sup>3</sup>/s (also occurred June 10, 1990, gage height, 4.19 ft, from rating curve extended above 482 ft<sup>3</sup>/s); minimum daily, 31 ft<sup>3</sup>/s, Dec. 23, 1990.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge during period May to September, 465 ft<sup>3</sup>/s, June 8, gage height, 4.17 ft, from rating curve extended above 384 ft<sup>3</sup>/s; minimum daily, 71 ft<sup>3</sup>/s, Sep. 17-18.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								97	211	268	110	80
2								95	208	218	110	81
3								104	216	193	108	80
4								127	250	176	110	83
5								154	281	168	112	85
6								179	340	169	105	83
7								189	406	156	97	81
8								215	418	152	94	81
9								222	408	146	89	78
10								216	398	148	86	80
11								242	321	145	84	80
12								243	269	139	83	78
13								202	236	136	82	78
14								169	246	142	83	75
15								153	271	159	83	76
16								149	263	179	84	74
17								159	256	280	86	71
18								163	265	263	90	71
19								216	252	225	114	77
20								278	238	193	112	81
21								303	241	177	101	81
22								295	240	163	101	81
23								252	199	160	100	77
24								243	186	173	94	74
25								249	184	152	92	73
26								239	214	143	89	73
27								247	218	153	87	72
28								256	204	142	86	75
29								305	196	128	84	76
30								274	253	119	83	80
31								232		113	81	
TOTAL								6,467	7,888	5,278	2,920	2,335
MEAN								209	263	170	94.2	77.8
MAX								305	418	280	114	85
MIN								95	184	113	81	71
AC-FT								12,830	15,650	10,470	5,790	4,630

#### 07086000 ARKANSAS RIVER AT GRANITE, CO

LOCATION.--Lat 39°02'34", long 106°15'55", in SE $^{1}\sqrt{_4}$ SW $^{1}\sqrt{_4}$  sec.31, T.11 S., R.79 W., Chaffee County, Hydrologic Unit 11020001, on right bank at Granite, 100 ft east of U.S. Highway 24, 100 ft downstream from county bridge, and 200 ft upstream from Cache Creek.

DRAINAGE AREA.--427 mi<sup>2</sup>.

PERIOD OF RECORD.--April to October 1895, May to December 1897, August to September 1898, March to October 1899, April to May 1901 (gage heights and discharge measurements only in 1895, 1899, and 1901), April 1910 to current year. Monthly discharge only for some periods, published in WSP 1311. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07086000

REVISED RECORDS.--WSP 1117: Drainage area. WSP 1711: 1952, 1956(M).

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 8,914.86 ft above NGVD of 1929, supplementary adjustment of 1960. Prior to Apr. 6, 1910, nonrecording gages near present site at different datums. Apr. 6, 1910 to Oct. 25, 1917, water-stage recorder or nonrecording gage at site 832 ft upstream at different datum. Oct. 26, 1917 to Oct. 26, 1960, water-stage recorder at site 168 ft downstream at present datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, power developments, transmountain diversions from Colorado River Basin (see elsewhere in this report), diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants. Flow partly regulated by Turquoise Lake and Twin Lakes Reservoir, on tributaries upstream from station, combined capacity, about 269,700 acre-ft.

DISCHARGE, CUBIC FEET PER SECOND

COOPERATION .-- Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

					YEAR OC	TOBER 2003 LY MEAN V	TO SEPTEM					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	83 92 103 108 104	107 114 132 121 e103	e87 e98 e133 162 159	e160 e163 e162 e160 e158	e152 e150 e152 e154 e150	e165 e150 e115 e103 e105	168 174 174 166 185	134 129 135 158 177	e342 346 361 455 597	492 440 463 476 530	440 404 373 390 428	93 93 92 94 99
6 7 8 9 10	97 96 92 88 85	e110 118 119 110 120	164 168 170 e165 e159	e155 e157 e160 e158 e158	e145 e145 e147 e147 e143	e100 e106 e113 119 125	188 186 188 197 185	206 212 238 250 244	795 1,050 1,350 1,550 1,390	518 486 455 416 415	437 424 417 432 466	96 93 91 90 90
11 12 13 14 15	91 88 85 82 95	116 102 114 114 107	e158 e159 e154 e156 e160	e156 e158 e156 e156 e158	e145 e140 e135 e137 e140	e101 e90 e90 e89 98	170 172 168 174 179	265 299 298 270 257	1,060 745 579 553 664	411 423 419 421 438	461 463 459 458 407	92 88 90 87 94
16 17 18 19 20	116 115 112 109 109	e93 e104 e100 e93 92	e160 e162 e164 e165 e168	e156 e152 e152 e152 e154	e142 e148 164 167 e165	123 150 155 165 174	179 182 183 175 175	249 280 335 380 362	844 1,050 1,050 650 456	449 488 431 464 459	343 272 207 162 141	109 82 80 88 101
21 22 23 24 25	108 109 109 109 106	100 95 e94 e93 e95	e165 e162 e160 e162 e164	e152 e152 e154 e158 e156	e160 e163 e162 e163 e165	177 178 174 179 187	174 176 179 178 189	348 345 311 355 486	423 431 403 416 398	423 407 403 419 399	128 123 126 116 113	102 104 98 92 90
26 27 28 29 30 31	100 109 109 108 107 107	e88 e90 e88 e89 e90	e158 e157 e155 e158 e159 e161	e152 e145 e150 e152 e156 e158	e165 e166 e170 e165	187 188 e168 e156 e163 e165	175 137 129 130 135	528 500 412 463 450 e380	439 455 453 446 480	382 382 373 357 404 449	107 103 103 99 97 94	90 88 92 94 101
TOTAL MEAN MAX MIN AC-FT	107 e90 e159 107 e161			4,826 156 163 145 9,570	4,447 153 170 135 8,820	4,358 141 188 89 8,640	5,170 172 197 129 10,250	9,456 305 528 129 18,760	20,231 674 1,550 342 40,130	13,492 435 530 357 26,760	8,793 284 466 94 17,440	2,793 93.1 109 80 5,540
				OR WATER YE				, ,				
MEAN MAX (WY) MIN (WY)	155 356 (1977) 82.4 (1932)	129 337 (1983) 64.3 (1945)	110 448 (1983) 48.5 (1977)	108 419 (1983) 39.8 (1918)	114 526 (1985) 45.0 (1919)	129 500 (1985) 55.0 (1919)	236 667 (1962) 97.1 (1933)	689 1,711 (1984) 191 (1935)	1,262 2,146 (1984) 262 (2002)	882 2,367 (1983) 150 (2002)	526 1,239 (1984) 151 (1934)	239 546 (1961) 93.1 (2004)
SUMMAR	RY STATIST	TICS		FOR 2003 CA	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 1	910 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK STAGE				97,810 268 2,150 e40 e43	Jun Feb Feb	8	8 1,61	50 Jui 50 Sep 57 Oc 0 Jui	n 9 o 18 t 8 n 10 n 10	6	31	1984 2002 Jun 30, 1957 Mar 15, 1918 Jan 10, 1918 Jun 28, 1957 Jun 28, 1957
ANNUAL 10 PERCE	RUNOFF (A ENT EXCEE ENT EXCEE	AC-FT) DS		194,000 558 156			167,90 45 15	00 55	-			

93

75

90 PERCENT EXCEEDS

52

e Estimated.

#### 07087050 ARKANSAS RIVER BELOW GRANITE, CO

LOCATION.--Lat 38°59'42", long 106°13'11", in  $SW^{1}_{4}NW^{1}_{4}$  sec. 22, T.12 S., R.79 W., Chaffee County, Hydrologic Unit 11020001, on right bank 500 ft east of U.S. Highway 24, 1.0 mi downstream from Pine Creek, and 4.8 mi southeast of Granite.

DRAINAGE AREA.--546 mi<sup>2</sup>.

PERIOD OF RECORD.--March 1999 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07087050

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,620 ft above NGVD of 1929, from topographic map.

REMARKS.—Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, power developments, transmountain diversions (see elsewhere in this report), diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants.

 $EXTREMES\ FOR\ PERIOD\ OF\ RECORD\ (seasonal\ only).--Maximum\ discharge,\ 3,280\ ft^3/s,\ May\ 31,\ 2000,\ gage\ height,\ 8.06\ ft;\ minimum\ daily,\ 101\ ft^3/s,\ Sept.\ 15,\ 22-23,\ 2002.$ 

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 2,000 ft<sup>3</sup>/s, June 9, gage height, 6.91 ft; minimum daily, 123 ft<sup>3</sup>/s, Sept. 14.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							189	180	560	716	555	151
2							197	178	566	636	491	e155
3							198	183	626	607	464	150
4							187	204	829	620	481	144
5							208	232	1,020	677	521	149
6							224	292	1,260	669	530	147
7							221	317	1,450	624	510	138
8							229	349	1,750	585	492	135
9							261	392	1,910	539	501	129
10							231	433	1,660	535	540	130
11							206	462	1,280	532	532	131
12							205	466	1,010	549	531	125
13							204	436	826	549	525	128
14							213	385	831	547	521	123
15							220	355	997	571	468	137
16							220	345	1,120	591	393	161
17							224	378	1,240	710	308	158
18							222	443	1,250	676	245	151
19							212	503	928	639	227	163
20							214	596	714	668	219	211
21							215	615	650	622	203	230
22							219	578	617	586	195	227
23							226	520	588	548	205	206
24							229	557	607	603	183	188
25							239	701	590	567	169	181
26							224	748	650	507	153	181
27							183	726	667	508	147	172
28							173	666	659	493	149	170
29							175	759	636	467	146	173
30							178	685	684	509	155	179
31								586		569	153	
TOTAL							6,346	14,270	28,175	18,219	10,912	4,823
MEAN							212	460	939	588	352	161
MAX							261	759	1,910	716	555	230
MIN							173	178	560	467	146	123
AC-FT							12,590	28,300	55,890	36,140	21,640	9,570

e Estimated.

#### 07091200 ARKANSAS RIVER NEAR NATHROP, CO

LOCATION.--Lat 38°39′08", long 106°03′02", in SE½3SW½, sec.23, T.51 N., R.8 E., Chaffee County, Hydrologic Unit 11020001, on right bank 300 ft upstream from end of Chaffee County Road 194 in Browns Canyon, 3.7 mi downstream from Browns Creek, 6.7 mi south of Nathrop, and 9 mi north of Salida.

DRAINAGE AREA.--1,060 mi<sup>2</sup>.

PERIOD OF RECORD.—October 1964 to September 1982. April 1989 to September 1993. October 1993 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07091200

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,350 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by storage reservoirs, power developments, transbasin and transmountain diversions, diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (occurred during period of seasonal record), 5,540 ft<sup>3</sup>/s, July 14, 1995, gage height, 8.63 ft, from rating curve extended above 5,500 ft<sup>3</sup>/s; maximum gage height, 8.94 ft, Aug. 31, 1972 (backwater from unnamed tributary); minimum daily, 95 ft<sup>3</sup>/s, Feb. 25-27, 1977.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 2,270 ft<sup>3</sup>/s, June 9, gage height, 6.47 ft; minimum daily, 236 ft<sup>3</sup>/s, Sep. 15.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							271	275	720	884	660	254
2							278	268	727	783	622	262
3							287	261	798	726	561	248
4							275	268	1,010	732	576	269
5							283	296	1,260	772	605	277
6							299	355	1,520	787	638	264
7							300	402	1,770	732	615	258
8							308	440	2,010	703	590	249
9							301	477	2,190	641	567	243
10							306	544	2,040	630	614	239
11							286	592	1,620	619	612	245
12							280	618	1,320	624	616	239
13							269	557	1,080	628	613	240
14							266	483	1,040	647	606	238
15							275	431	1,180	685	588	236
16							275	418	1,310	707	512	250
17							273	443	1,440	848	437	254
18							270	535	1,490	933	378	248
19							269	632	1,220	860	376	252
20							264	823	954	908	374	283
21							270	864	830	812	341	317
22							276	866	780	763	324	324
23							290	754	714	713	329	309
24							287	742	741	748	314	293
25							298	870	718	742	284	283
26							298	930	779	656	270	283
27							269	934	828	643	259	281
28							247	874	813	629	262	274
29							250	1,020	788	605	253	275
30							268	923	832	588	253	279
31								771		679	256	
TOTAL							8,388	18,666	34,522	22,427	14,305	7,966
MEAN							280	602	1,151	723	461	266
MAX							308	1,020	2,190	933	660	324
MIN							247	261	714	588	253	236
AC-FT							16,640	37,020	68,470	44,480	28,370	15,800

## 07093700 ARKANSAS RIVER NEAR WELLSVILLE, CO

ARKANSAS RIVER BASIN

 $LOCATION.--Lat~38°30'10", long~105°56'21", in~SW^{1}{}_{4}NE^{1}{}_{4}~sec.14,~T.49~N.,~R.9~E.,~Chaffee~County,~Hydrologic~Unit~11020001, on~right~bank~50~ft~upstream~from~Chaffee-Fremont~County~line,~2.0~mi~northwest~of~Wellsville,~2.8~mi~downstream~from~South~Arkansas~River,~and~3.5~mi~southeast~of~Salida.$ 

DRAINAGE AREA.--1,485 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1961 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=07093700

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 6,883.4 ft above NGVD of 1929 (river-profile survey).

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transbasin and transmountain diversions, storage reservoirs, power developments, diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants.

COOPERATION .-- Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DAY	OCT	NOV	DEC	TANT	EED	MAD	ADD	MAN	HIN	11.11	ALIC	CED
DAY 1	OCT 252	NOV 317	DEC 333	JAN e365	FEB e340	MAR 316	APR 284	MAY 295	JUN 755	JUL 874	AUG 668	SEP 290
2 3	258 285	324 337	325 331	353 e355	e320 e325	323 302	291 317	284 270	747 805	784 717	642 587	291 283
4	322	344	363	e335	e327	278	299	272	994	716	590	308
5	313	324	378	e315	e329	268	300	304	1,300	733	606	316
6 7	300	311	383	e305	e320	258	336 331	373	1,570 1,880	756	639	304 306
8	281 272	324 330	386 390	e320 e340	e311 e318	264 272	348	445 486	2,130	711 686	627 603	294
9 10	260 255	320	383	e330	e320	278	339	514 597	2,380	634	577 607	288
		317	e377	e325	e315	281	357		2,260	623		260
11 12	249 247	323 326	e377 e370	e330 e329	e310 e305	278 255	327 311	644 687	1,770 1,430	610 609	607 609	262 258
13	246	328	e360	e327	e300	248	299	615	1,140	615	611	257
14 15	254 248	333 324	363 375	e320 e323	e302 e325	242 240	283 293	520 449	1,050 1,170	622 663	594 592	244 240
16	259	302	e360	336	e330	238	293	426	1,310	692	519	249
17	287	300	e365	337	e334	258	291	451	1,440	849	464	258
18 19	287 279	296 290	e370 e380	e333 e334	e338 e348	282 289	278 275	527 706	1,530 1,290	952 876	414 421	251 258
20	278	294	e379	e335	345	299	266	935	989	923	417	291
21	287	292	e361	333	337	308	269	e994	845	827	381	338
22 23	290 280	299 e275	e365 e359	e330 e333	335 334	314 314	283 313	e1,020 e919	787 720	772 732	367 363	347 334
24	267	e255	e360	e321	335	309	312	e878	720	751	357	310
25	266	e285	e358	e320	332	310	331	e963	716	762	326	297
26 27	266 273	e288 e290	e356 e355	e310 e305	329 332	315 314	333 294	e1,040 e1,030	762 819	684 659	311 299	296 296
28	287	e280	e345	e310	334	307	261	927	846	647	302	288
29	296 304	e295	e340	e320	328	286	260 289	1,070 994	791	632	291	291 294
30 31	317	e298	e345 e360	e328 e335		277 283	289	826	812	603 683	287 295	294
TOTAL	8,565	9,221	11,252	10,192	9,458	8,806	9,063	20,461	35,758	22,397	14,973	8,599
MEAN	276	307	363	329	326	284	302	660	1,192	722	483	287
MAX MIN	322 246	344 255	390 325	365 305	348 300	323 238	357 260	1,070 270	2,380 716	952 603	668 287	347 240
AC-FT	16,990	18,290	22,320	20,220	18,760	17,470	17,980	40,580	70,930	44,420	29,700	17,060
STATIST	ICS OF MON	NTHLY MEA	N DATA FO	OR WATER YE	EARS 1961	- 2004, BY W	ATER YEAR	R (WY)				
MEAN	402	415	379	354	348	335	385	1,026	2,044	1,412	859	496
MAX (WY)	750 (1985)	581 (1983)	636 (1983)	576 (1983)	729 (1985)	647 (1993)	896 (1962)	2,344 (1984)	3,930 (1980)	3,521 (1995)	1,889 (1984)	1,031 (1970)
MIN	222	226	211	207	208	195	215	380	417	278	260	218
(WY)	(2003)	(2003)	(2003)	(1977)	(1977)	(2003)	(1977)	(2002)	(2002)	(2002)	(2002)	(2002)
SUMMAI	SUMMARY STATISTICS			FOR 2003 CA	LENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 19	961 - 2004
	ANNUAL TOTAL			180,125 493			168,74 46			,	710	
ANNUAL MEAN HIGHEST ANNUAL MEAN				493			40	1		a1,		1984
LOWEST ANNUAL MEAN				2 220		1	2.20	0 1	0		318	2002
HIGHEST DAILY MEAN LOWEST DAILY MEAN				3,320 178	Jun Mar		2,38 23		n 9 r 16			Jun 12, 1980 Jan 12, 1963
ANNUAL SEVEN-DAY MINIMUM			M	190	Mar	26	25		p 12			Jan 11, 1963
	MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE						2,51		n 9 n 9	6,2		Jun 12, 1980 Jun 12, 1980
ANNUAL	ANNUAL RUNOFF (AC-FT)			357,300			334,70	0		514,3	300	,
				880 304			82 33				580 435	
	10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			204			26				258	

e Estimated.
a Highest annual mean, also occurred 1995 water year.

b Maximum gage height, 8.40 ft, Jun 23, 1995.

#### 07094500 ARKANSAS RIVER AT PARKDALE, CO

LOCATION.--Lat 38°29'14", long 105°22'23", in NE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.18, T.18 S., R.71 W., Fremont County, Hydrologic Unit 11020001, on left bank at Parkdale, 100 ft upstream from Bumback Gulch, 300 ft upstream from bridge on U.S. Highway 50, and 0.9 mi upstream from Copper Gulch.

DRAINAGE AREA.--2.548 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1945 to September 1955, October 1964 to September 1994, April 1995 to current year (seasonal records only). Monthly discharge only for October 1945 to May 1946, published in WSP 1311. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07094500

REVISED RECORDS.--WSP 1117: Drainage area.

GAGE.—Water-stage recorder with satellite telemetry. Elevation of gage is 5,720 ft above NGVD of 1929, from topographic map. Prior to Oct. 1, 1964, at site 600 ft downstream at different datum.

REMARKS.—No estimated daily discharges. Records good. Natural flow of stream affected by transbasin and transmountain diversions, storage reservoirs, power development, ground-water withdrawals, diversions for irrigation and municipal use, return flows from irrigated areas, and flows from sewage-treatment plants.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (occurred during period of seasonal record), 6,830 ft<sup>3</sup>/s, June 18, 1995, gage height, 8.82 ft, from rating curve extended above 6,050 ft<sup>3</sup>/s; maximum gage height, 9.13 ft, June 9, 1985; minimum daily (occurred during period of seasonal record), 187 ft<sup>3</sup>/s, Sept. 17, 2002.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 2,480 ft<sup>3</sup>/s, June 9, gage height, 5.20 ft; minimum daily, 275 ft<sup>3</sup>/s, Sept. 16.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							313	407	838	985	747	331
2							314	402	813	945	725	326
3							383	351	856	850	681	330
4							366	337	1,010	814	632	328
5							343	348	1,310	818	628	354
6							378	397	1,520	843	662	356
7							376	502	1,870	817	694	346
8							424	562	2,110	775	674	339
9							420	587	2,350	733	654	330
10							435	657	2,340	701	635	316
11							421	734	1,910	697	653	299
12							402	804	1,550	673	649	298
13							386	763	1,270	673	645	296
14							353	646	1,130	673	639	290
15							340	544	1,170	715	631	277
16							340	490	1,320	774	614	275
17							340	491	1,400	997	562	287
18							319	551	1,510	1,090	503	290
19							314	727	1,460	1,010	484	283
20							308	934	1,160	986	511	317
21							200	1 100	991	046	468	252
21 22							298	1,100		946		352
22							309 392	1,120 1,020	912 846	887 906	436 416	404 393
23 24							382	918	801	906 860	410	393 372
25							413	937	828	884	388	352
23							413	931	626	004	300	332
26							440	1,050	835	822	357	343
27							452	1,040	914	765	345	342
28							377	1,040	932	744	344	341
29							325	1,100	1,030	728	338	339
30							371	1,130	924	682	329	339
31								976		713	333	
TOTAL							11,055	22,665	37,910	25,506	16,789	9,845
MEAN							368	731	1.264	823	542	328
MAX							452	1,130	2,350	1,090	747	404
MIN							298	337	801	673	329	275
AC-FT							21,930	44,960	75,190	50,590	33,300	19,530

#### 07096000 ARKANSAS RIVER AT CANON CITY, CO

LOCATION.--Lat 38°26′02", long  $105^\circ15'24$ ", in  $SE^{1/}_4SE^{1/}_4$  sec. 31, T.18 S., R.70 W., Fremont County, Hydrologic Unit 11020002, on right bank 800 ft upstream from Sand Creek, 0.7 mi downstream from Grape Creek, and 0.7 mi upstream from First Street bridge at Canon City.

DRAINAGE AREA -- 3 117 mi<sup>2</sup>

PERIOD OF RECORD.--January 1888 to current year. Monthly discharge only for some periods, published in WSP 1311. Published as "near Canyon" 1900-1906. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07096000

REVISED RECORDS.--WSP 1117: Drainage area. WSP 1311: 1897-98.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 5,342.13 ft above NGVD of 1929. See WSP 1711 or 1731 for history of changes prior to Oct. 1, 1957. Oct. 1, 1957 to Nov. 15, 1962, water-stage recorder at present site at datum 1.49 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, power developments, transbasin and transmountain diversions, diverions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment

COOPERATION .-- Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

#### DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES DAY OCT NOV DEC JUN JUL AUG SEP JAN FEB MAR MAY e360 e370 e370 e350 e310 e355 1.160 e280 e350 1,400 e300 e330 1,740 e320 e340 1,980 e335 e395 e330 2,250 e380 e340 e330 e370 e350 e335 1,860 e380 e360 e330 1,490 e385 e325 1 200 e330 e385 1.010 e390 e345 1,050 e385 e360 1.220 e370 e375 1.320 e380 1,420 e390 1.380 1.060 e360 e350 e345 e270 e275 e345 e295 e350 e310 e340 2.7 e315 e305 e340 e325 e320 e325 e295 e340 e340 ---e360 TOTAL 6,556 219 7,074 8,741 11,656 10,823 10,181 10,685 11,245 20.069 34.592 22,289 13,947 1,153 MEAN 2,250 MAX MIN AC-FT 14,030 17,340 23,120 21,470 20,190 21,190 22,300 39,810 68,610 44,210 27,660 13,000 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1889 - 2004, BY WATER YEAR (WY) MEAN 1,098 2,253 1,449 MAX 1.195 1,120 2,667 4.286 5.541 2,134 1,411 (WY) (1983)(1957) (1912)(1924)(1983)(1985)(1989)(1942)(1984)(1980)(1957)(1909)MIN 30Ó 20Ó (WY) (2003)(1940)(1940)(1979)(1978)(1904)(1940)(1977)(2002)(2002)(2002)(2002)FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR SUMMARY STATISTICS WATER YEARS 1889 - 2004 ANNUAL TOTAL 169,615 167,858 ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN 1,299 Jun 29, 1957 HIGHEST DAILY MEAN 3.540 Jun 2 2.250 Jun 9 9.480 LOWEST DAILY MEAN May 13, 1959 May 13 Sep 16 Sep 13 ANNUAL SEVEN-DAY MINIMUM Apr 9, 1940 May 2, 1921 2, 1921 MAXIMUM PEAK FLOW 2,380 Jun 9 a19,000 Aûg MAXIMUM PEAK STAGE 8.02 b,c10.70 Jun Aug ANNUAL RUNOFF (AC-FT) 332,900 336,400 524,600

1,690

10 PERCENT EXCEEDS

50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

Estimated.

Site and datum then in use, from rating curve extended above 5,000 ft<sup>3</sup>/s.

b From floodmark

Maximum gage height, 10.90 ft, Jun 18, 1995.

#### 07096250 FOURMILE CREEK BELOW CRIPPLE CREEK NEAR VICTOR, CO

 $LOCATION.--Lat~38°39'50", long~105°13'39", in~SW^{1}_{4}SE^{1}_{4}~sec.9, T.16~S., R.70~W., Teller~County, Hydrologic~Unit~11020002, on left bank~500~ft from~Teller~County~Route~88, 0.2~mi~downstream~from~Cripple~Creek, and 5.5~mi~southwest~of~Victor.$ 

DRAINAGE AREA.--272 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1992 to November 2003. April 1 to September 2004 (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07096250

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 6,870 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by small diversions for irrigation, flows from Cripple Creek sewage treatment plant, and releases from Wrights Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,990 ft<sup>3</sup>/s, July 16, 2004, gage height, 6.50 ft, from step-backwater analysis of peak flow; no flow, September 6-8, 2002.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 1,990 ft<sup>3</sup>/s, July 16, gage height, 6.50 ft, from step-backwater analysis of peak flow; minimum daily, 2.6 ft<sup>3</sup>/s, November 22.

#### DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	4.0 4.2 5.4 6.6 6.6	5.6 5.6 6.0 6.0 5.5	   	   	   	  	3.8 4.0 7.8 6.9 7.0	20 23 23 21 20	25 25 28 30 27	19 15 13 13	41 40 40 38 41	55 54 53 54 55
6 7 8 9 10	6.5 6.3 6.4 5.9 4.9	5.9 6.3 6.3 6.1 6.2	   	   	  	  	7.1 6.6 6.9 7.6 9.2	18 17 22 23 26	20 12 11 11 9.4	12 12 12 11 12	47 45 53 51 50	51 49 49 49
11 12 13 14 15	5.0 5.2 5.1 5.2 5.2	6.2 6.0 6.6 6.5 6.1	   	   	  	  	9.7 11 11 12 11	25 26 29 31 31	12 12 12 11 10	13 12 11 14 15	50 51 50 48 48	49 47 47 46 46
16 17 18 19 20	5.2 5.2 5.2 5.2 5.2	5.1 4.3 3.3 3.7 3.4	   	   	  	  	11 10 10 10 11	30 29 30 28 28	11 11 12 12 12	97 31 39 47 51	47 45 48 61 58	46 46 45 45 23
21 22 23 24 25	5.1 5.0 5.2 5.3 5.6	3.0 2.6 3.1 3.8 4.2	   	   	  	  	11 12 14 14 18	24 26 26 26 25	13 14 12 11 14	57 42 49 79 61	69 63 61 59 58	17 18 16 15 15
26 27 28 29 30 31	5.7 5.9 5.7 5.5 5.4 5.5	4.1 3.3 3.0 2.9 3.0	   	   	   	   	18 17 15 14 16	24 25 25 25 26 26	17 17 20 20 22	59 59 57 54 48 44	57 58 58 56 55 55	15 15 14 15 14
TOTAL MEAN MAX MIN AC-FT	168.4 5.43 6.6 4.0 334	143.7 4.79 6.6 2.6 285	   	   	   	   	322.6 10.8 18 3.8 640	778 25.1 31 17 1,540	473.4 15.8 30 9.4 939	1,071 34.5 97 11 2,120	1,601 51.6 69 38 3,180	1,112 37.1 55 14 2,210

.

#### 07097000 ARKANSAS RIVER AT PORTLAND, CO

 $LOCATION.--Lat~38^\circ 23^\circ 18^\circ, long~105^\circ 00^\circ 56^\circ, in~NE^1/_4NE^1/_4~sec. 20,~T.19~S.,~R.68~W.,~Fremont~County,~Hydrologic~Unit~11020002,~on~right~bank~at~upstream~side~of~bridge~on~State~Highway~120~at~Portland,~and~1~mi~downstream~from~Hardscrabble~Creek.$ 

DRAINAGE AREA.--4,024 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1939 to September 1952, October 1974 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07097000

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 5,021.59 ft above NGVD of 1929. Prior to Oct. 1, 1974, at site 400 ft downstream at datum 0.03 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, power developments, transbasin and transmountain diversions, diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants.

COOPERATION .-- Records collected and computed by Colorado Division of Water Resources and reviewed by U.S. Geological Survey.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 21, 1965, reached a discharge of 23,900 ft<sup>3</sup>/s, from rating curve extended above 7,400 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow, gage height, 11.85 ft.

DISCHARGE, CUBIC FEET PER SECOND

					YEAR OC		TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	185 190 191 245 263	305 312 331 332 315	326 333 325 334 365	384 390 376 e360 e325	382 358 352 386 e360	332 333 332 333 333	254 254 347 322 282	539 609 501 447 410	769 722 742 868 1,160	964 981 853 801 793	821 750 627 554 547	278 260 264 260 289
6 7 8 9 10	257 246 226 222 223	322 305 320 321 313	384 386 397 433 408	e270 e350 e395 385 377	346 329 342 338 333	310 310 330 342 375	287 332 372 447 477	447 517 572 599 630	1,410 1,740 2,000 2,290 2,340	837 820 727 657 575	593 614 640 597 567	289 269 269 246 229
11 12 13 14 15	226 223 236 235 232	304 309 319 313 322	388 386 377 380 408	370 362 352 322 325	335 e308 e304 e318 e335	432 399 369 354 316	433 412 415 371 333	711 746 738 625 520	1,980 1,560 1,270 1,060 1,070	603 573 578 563 592	647 633 632 597 598	214 211 205 199 214
16 17 18 19 20	227 228 244 248 243	311 284 274 272 263	387 352 382 384 388	337 335 334 318 329	354 361 374 378 360	313 302 316 332 312	333 304 294 283 260	445 416 431 580 789	1,220 1,320 1,450 1,460 1,170	655 1,060 1,090 1,100 1,000	555 468 409 414 477	217 215 226 243 234
21 22 23 24 25	248 260 275 265 254	281 e285 e300 e270 e275	397 394 396 366 364	333 315 306 311 e305	348 345 333 338 341	310 313 308 305 304	243 272 553 556 528	993 1,030 981 841 855	978 856 757 673 723	1,010 926 974 988 1,000	507 425 407 391 379	261 332 332 323 295
26 27 28 29 30 31	263 262 266 280 287 300	e305 314 283 296 306	374 366 e315 e290 e310 e360	e315 e285 e310 e330 366 373	337 327 345 344	302 293 280 279 252 242	564 664 564 491 514	965 966 970 977 1,080 940	732 850 884 1,030 908	941 888 885 851 771 757	333 321 331 327 297 286	293 275 291 313 307
TOTAL MEAN MAX MIN AC-FT	7,550 244 300 185 14,980	9,062 302 332 263 17,970	11,455 370 433 290 22,720	10,545 340 395 270 20,920	10,011 345 386 304 19,860	9,963 321 432 242 19,760	11,761 392 664 243 23,330	21,870 705 1,080 410 43,380	35,992 1,200 2,340 673 71,390	25,813 833 1,100 563 51,200	15,744 508 821 286 31,230	7,853 262 332 199 15,580
				OR WATER YE				, ,				
MEAN MAX (WY) MIN (WY)	381 1,083 (1985) 136 (1978)	412 748 (1985) 191 (1978)	377 693 (1983) 212 (1978)	358 626 (1983) 199 (1979)	349 774 (1985) 162 (1978)	362 683 (1989) 147 (1978)	485 1,869 (1942) 135 (1981)	1,164 2,680 (1984) 245 (1977)	2,405 4,429 (1980) 292 (2002)	1,515 4,472 (1995) 201 (2002)	905 2,380 (1984) 144 (2002)	436 1,008 (1982) 134 (2002)
SUMMAF	RY STATIST	ICS		FOR 2003 CA	ALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 19	39 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN				177,223 486 3,740	Jun	2	177,61 48 2,34	35	ո 10	1,3	768 387 264 460	1995 2002 Jun 8, 1942
LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT)			М	142 150 351,500	May May	9	18 21 2,54	35 Oc 11 Sej 40 Jui 4.72 Jui	t 1 5 11 1 9 1 9	a21,1	66 76 100 12.18	Oct 28, 1977 Oct 24, 1977 Jun 5, 1949 Jun 5, 1949
10 PERCE 50 PERCE	ENT EXCEEI ENT EXCEEI ENT EXCEEI	OS OS		870 281 183			94 35 25	18 51		1,8	810 445 220	

e Estimated.

a From rating curve extended above 5,300 ft<sup>3</sup>/s.

#### 07099050 BEAVER CREEK ABOVE UPPER BEAVER CEMETERY NEAR PENROSE, CO

LOCATION.--Lat 38°33'42", long 105°01'17", in NW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec. 20, T.17 S., R.68 W., Fremont County, Hydrologic Unit 11020002, on left bank 40 ft upstream from bridge on Fremont County Road 132, 1 mi downstream from Banta Gulch, 1.3 mi northeast of Upper Beaver Cemetery, and 9.2 mi north of Penrose.

DRAINAGE AREA.--122 mi<sup>2</sup>.

PERIOD OF RECORD.--March 1991 to current year (seasonal records only). For a complete listing of historical data available for this site see, http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07099050

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,020 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, diversions for irrigation, and diversions for municipal use by the City of Colorado Springs.

 $EXTREMES\ FOR\ PERIOD\ OF\ RECORD\ (seasonal\ only). -- Maximum\ discharge,\ 659\ ft^3/s,\ June\ 10,\ 1997,\ gage\ height,\ 5.57\ ft,\ from\ rating\ curve\ extended\ above\ 602\ ft^3/s;\ maximum\ gage\ height,\ 6.70\ ft,\ Sept.\ 4,\ 1991;\ minimum\ daily,\ 0.75\ ft^3/s,\ Sept.\ 8,\ 2002.$ 

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 121 ft<sup>3</sup>/s, July 27, gage height, 3.78 ft; minimum daily, 2.2 ft<sup>3</sup>/s (estimated), Nov. 30.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	8.8				4.0	12	53	28	49	44	38
2	18	8.3				4.2	13	54	28	34	41	37
3	18	8.3				4.0	23	53	28	27	39	34
4	18	8.2				4.4	16	53	27	23	32	33
5	18	8.0				4.4	15	54	26	21	33	36
6	18	8.4				4.8	15	56	29	20	47	32
7	18	8.8				5.5	14	57	30	20	59	31
8	18	8.6				5.9	20	60	33	18	53	29
9	18	8.5				6.8	25	60	35	17	49	28
10	17	8.5				7.9	27	58	27	22	45	27
11	18	8.4				7.6	23	58	21	27	44	24
12	18	8.4				7.7	23	56	20	22	49	24
13	18	9.0				8.5	22	55	20	19	57	23
14	18	8.7				8.4	24	54	19	18	49	22
15	17	8.3				8.8	24	50	18	17	44	20
16	14	8.0				8.4	24	46	17	21	37	23
17	14	8.1				9.9	24	44	16	42	29	26
18	13	7.7				15	25	41	16	45	28	26
19	7.5	e8.5				16	22	41	16	48	42	22
20	7.2	e7.9				17	22	42	15	46	47	22
21	7.8	e7.4				17	20	45	15	38	61	22
22	8.3	e6.8				17	21	44	18	34	51	25
23	7.6	e6.2				17	25	41	16	45	46	22
24	7.5	e5.6				16	23	37	15	46	41	22
25	7.5	e5.1				14	32	36	16	50	40	22
26	7.7	e4.5				14	34	34	16	50	39	22
27	7.6	e3.9				14	48	32	18	63	39	24
28	7.7	e4.0				12	60	32	22	59	46	24
29	7.8	e2.8				9.7	61	31	24	64	43	25
30	8.1	e2.2				12	57	34	33	56	39	21
31	8.8					12		30		49	40	
TOTAL	410.1	215.9				313.9	794	1,441	662	1,110	1,353	786
MEAN	13.2	7.20				10.1	26.5	46.5	22.1	35.8	43.6	26.2
MAX	18	9.0				17	61	60	35	64	61	38
MIN	7.2	2.2				4.0	12	30	15	17	28	20
AC-FT	813	428				623	1,570	2,860	1,310	2,200	2,680	1,560

e Estimated.

#### 07099060 BEAVER CREEK ABOVE HIGHWAY 115 NEAR PENROSE, CO

LOCATION.--Lat 38°29'21", long 104°59'49", in NE½4NE½4 sec.16, T.18 S., R.68 W., Fremont County, Hydrologic Unit 11020002, on left bank 240 ft downstream from Beaver Park Irrigation Company diversion dam, 1.8 mi upstream from State Highway 115, and 4.7 mi north of Penrose. Prior to Feb. 27, 2004, at site 60 ft downstream. DRAINAGE AREA.--138 mi².

PERIOD OF RECORD.--March 1991 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07099060

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 5,660 ft above NGVD of 1929, from topographic map.

REMARKS.—Records good except for estimated daily discharges that are not at zero flow, which are poor. Natural flow of stream affected by storage reservoirs, diversions for municipal use by Colorado Springs, and diversions for irrigation. Flows are regulated to some extent by Beaver Park Irrigation Company diversion dam 300 ft upstream.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum discharge,  $1,260 \text{ ft}^3/\text{s}$ , Sept. 6,2003, gage height, 7.51 ft, from rating curve extended above  $422 \text{ ft}^3/\text{s}$  on basis of flow over dam computation of peak flow; no flow on many days.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 40 ft<sup>3</sup>/s, July 28, gage height, 3.01 ft, from rating curve extended above 422 ft<sup>3</sup>/s on basis of flow over dam computation of peak flow; no flow on many days.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	   	   	   	0.00 0.00 0.00 0.00 0.00	0.00 0.00 1.2 0.00 0.00	14 14 13 12 9.8	0.00 0.00 0.00 0.00 0.00	5.3 0.01 0.00 0.00 0.00	24 21 18 5.8 0.00	0.00 0.00 0.00 0.00 0.00
6 7 8 9 10	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	   	   	   	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 e3.2 e0.03	9.4 9.9 12 13 10	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	2.9 9.2 4.4 0.11 0.05	0.00 0.00 0.00 0.00 0.00
11 12 13 14 15	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	   	   	   	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	10 7.9 7.3 7.6 2.7	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 14 9.0 2.4	0.00 0.00 0.00 0.00 0.00
16 17 18 19 20	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 e0.00 e0.00	   	   	   	0.00 0.00 0.00 0.63 0.00	0.00 0.00 0.00 0.00 0.00	0.04 0.01 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 5.0 8.5 11	0.36 0.00 0.00 0.00 4.4	0.00 0.00 0.00 0.00 0.00
21 22 23 24 25	0.00 0.00 0.00 0.00 0.00	e0.00 e0.00 e0.00 e0.00 e0.00	   	   	   	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 3.4	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	4.7 0.01 6.0 11 15	15 9.9 3.1 0.11 0.05	0.00 0.00 0.00 0.00 0.00
26 27 28 29 30 31	0.00 0.00 0.00 0.00 0.00 0.00	e0.00 e0.00 e0.00 e0.00 e0.00	   	   	   	0.00 0.00 0.00 0.00 0.00 0.00	3.1 11 24 20 16	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	14 21 13 21 27 29	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
TOTAL MEAN MAX MIN AC-FT	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	   	   	   	0.63 0.02 0.63 0.00 1.2	81.93 2.73 24 0.00 163	152.65 4.92 14 0.00 303	0.00 0.00 0.00 0.00 0.00	201.52 6.50 29 0.00 400	143.78 4.64 24 0.00 285	0.00 0.00 0.00 0.00 0.00

e Estimated.

#### 07099215 TURKEY CREEK NEAR FOUNTAIN, CO

LOCATION.--Lat 38°36'42", long 104°53'39", in NW \(^1/4\)SE \(^1/4\) sec.33, T.16 S., R.67 W., El Paso County, Hydrologic Unit 11020002, on Fort Carson Military Reservation, on left bank 100 ft downstream from State Highway 115 bridge, 0.7 mi downstream from Turkey Canyon, 0.8 mi upstream from Turkey Creek Ranch, and 9.4 mi southwest of Fountain.

DRAINAGE AREA .-- 13.0 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1978 to September 1989, May 1995 to September 1998, April 1999 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07099215

REVISED RECORDS.--WDR CO-80-1: 1978-79 (M). WDR CO-96-1: 1980 (M), 1982-86 (M).

GAGE.—Water-stage recorder with satellite telemetry. Elevation of gage is 6,420 ft above NGVD of 1929, from topographic map. Prior to June 14, 2001, at datum 1.00 ft higher.

REMARKS.--No estimated daily discharges. Records fair. Natural flow of stream affected by upstream diversions for irrigation and livestock.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 850 ft<sup>3</sup>/s, June 10, 1997, from slope-area measurement of peak flow, gage height, 6.56 ft, from floodmarks; no flow on many days during many years.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 35 ft<sup>3</sup>/s, July 16, gage height, 2.50 ft; no flow on many days.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0.00	6.1	0.11	0.00	0.27	0.00
2							0.00	5.9	0.09	0.00	0.23	0.00
3							0.34	6.5	0.07	0.00	0.24	0.00
4							0.00	7.0	0.05	0.00	0.23	0.00
5							0.00	7.0	0.04	0.00	0.31	0.00
6							0.15	6.6	0.02	0.00	0.51	0.00
7							0.06	5.8	0.00	0.00	1.3	0.00
8							1.6	5.0	0.00	0.00	0.72	0.00
9							2.7	4.3	0.00	0.00	0.38	0.00
10							2.9	3.8	0.00	0.00	0.29	0.00
11							2.1	3.4	0.00	0.00	0.33	0.00
12							1.8	2.9	0.00	0.00	0.46	0.00
13							1.5	3.1	0.00	0.00	0.38	0.00
14							1.9	3.3	0.00	0.00	0.28	0.00
15							1.9	2.4	0.00	0.01	0.27	0.00
16							1.7	1.9	0.00	1.2	0.25	0.00
17							1.6	1.6	0.00	0.08	0.25	0.00
18							1.5	1.4	0.00	0.00	0.89	0.00
19							1.3	1.2	0.00	0.00	0.49	0.00
20							1.1	0.95	0.00	0.00	0.36	0.00
21							0.94	0.90	0.02	0.00	0.29	0.04
22							1.0	0.71	0.00	0.00	0.27	0.13
23							1.1	0.58	0.00	0.06	0.26	0.00
24							0.98	0.45	0.00	0.51	0.25	0.00
25							1.9	0.39	0.00	0.22	0.24	0.00
26							2.0	0.31	0.00	0.00	0.22	0.00
27							3.0	0.23	0.02	0.00	0.22	0.00
28							5.8	0.19	0.00	0.02	0.16	0.00
29							7.1	0.15	0.00	0.78	0.13	0.00
30							6.9	0.13	0.12	0.61	0.09	0.00
31								0.12		0.38	0.05	
TOTAL							54.87	84.31	0.54	3.87	10.62	0.17
MEAN							1.83	2.72	0.02	0.12	0.34	0.01
MAX							7.1	7.0	0.12	1.2	1.3	0.13
MIN							0.00	0.12	0.00	0.00	0.05	0.00
AC-FT							109	167	1.1	7.7	21	0.3

#### 07099230 TURKEY CREEK ABOVE TELLER RESERVOIR NEAR STONE CITY, CO

 $LOCATION.--Lat~38°27'54", long~104°49'36" (revised), in~SW^{1}_{4}SW^{1}_{4}~sec.19,~T.18~S.,~R.66~W.,~Pueblo~County,~Hydrologic~Unit~11020002,~on~Fort~Carson~Military~Reservation,~on~left~bank~0.7~mi~northwest~of~intersection~of~military~roads~9~and~1,~2.2~mi~upstream~from~Teller~Reservoir~Dam,~and~2.2~mi~northeast~of~Stone~City.$ 

DRAINAGE AREA.--62.3 mi<sup>2</sup>.

REVISED RECORDS.--WDR CO-89-1: Drainage area.

PERIOD OF RECORD.--May 1978 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,520 ft above NGVD of 1929, from topographic map. Prior to July 21, 1989, at site 0.6 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by diversions for irrigation.

				WAT	ER YEAR O		ET PER SECO 3 TO SEPTEN VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26 27 28 29 30 31	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN	2.36	1.66	0.85	0.67	0.63	0.64	2.34	15.0	9.10	2.53	5.99	1.33
MAX	44.6	26.7	6.47	2.69	2.58	2.75	21.8	124	60.1	17.1	79.2	18.1
(WY)	(1985)	(1985)	(1985)	(1985)	(1985)	(1985)	(1999)	(1999)	(1997)	(1985)	(1999)	(1982)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1979)	(1979)	(1979)	(1979)	(1979)	(1979)	(1979)	(1979)	(1989)	(1978)	(1990)	(1978)
SUMMAF	RY STATIST	TICS		FOR 2003	CALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	R YEARS 197	78 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE		MEAN AN AN Y MINIMU OW 'AGE AC-FT) DS	М			y 25 n 1 n 1		0.00 Oc	t 1 t 1 t 1	b3,	a0.00 M 0.00 M 640 A	1999 2002 ug 5, 1999 ay 18, 1978 ay 18, 1978 ug 20, 1982 ug 20, 1982
	ENT EXCEE				0.00			0.00			0.00	

a No flow many days during many years.
 b From rating curve extended above 95 ft<sup>3</sup>/s on basis of slope-area measurements at gage heights 7.64 ft and 11.27 ft, site and datum then in use.
 c Maximum gage height, 11.88 ft, June 8, 1987, site and datum then in use.

#### 382629104493000 TURKEY CREEK EAST SEEPAGE BELOW TELLER RESERVOIR NEAR STONE CITY, CO

LOCATION.--Lat 38°26′29", long 104°49′33" (revised), in SW  $^{1}\!\!/_{4}$ NW  $^{1}\!\!/_{4}$  sec.31, T.18 S., R.66 W., Pueblo County, Hydrologic Unit 11020002, on Fort Carson Military Reservation, at base of left downstream end of Teller Dam on Turkey Creek, and 2.0 mi east of Stone City.

DRAINAGE AREA.--Indeterminate.

 $PERIOD\ OF\ RECORD. -- October\ 2001\ to\ current\ year.\ For\ a\ complete\ listing\ of\ historical\ data\ available\ for\ this\ site,\ see\ http://waterdata.usgs.gov/co/nwis/inventory/\\?site\_no=382629104493000$ 

GAGE.--Water-stage recorder with satellite telemetry and V-notch sharp-crested weir. Elevation of gage is 5,420 ft above NGVD of 1929, from topographic map.

REMARKS.--Records poor. Flows less than 0.02 ft<sup>3</sup>/s can be in error by more than 25 percent. Natural flow of stream affected by Teller Reservoir contents (station 07099233) and saturation of earthfill dam.

EXTREMES FOR PERIOD OF RECORD (dam seepage only).--Maximum daily discharge, 0.17 ft<sup>3</sup>/s, Mar. 15, 17, 2002; no flow on many days during 2004.

EXTREMES FOR CURRENT YEAR (dam seepage only), -- Maximum daily discharge, 0.001 ft<sup>3</sup>/s, on many days; no flow on many days.

#### DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	0.001	0.001	0.001	0.001	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000
4	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.001	0.001	0.001	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000
6	0.001	0.001	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	0.001	0.001	0.001	e0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	0.001	0.001	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.001	0.001	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17	0.001	0.001	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18	0.001	0.001	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19	0.001	0.001	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.001	0.001	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23	0.001	0.001	e0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000
24	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.001	0.001	0.001	0.001	0.000	0.000	0.000	e0.000	0.000	0.000	0.000	0.000
26	0.001	0.001	0.001	0.001	0.000	0.000	0.000	e0.000	0.000	0.000	0.000	0.000
27	0.001	0.001	e0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	0.001	0.001	e0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.001	0.001	0.001	0.001		0.000	0.000	0.000	0.000	0.000	0.000	0.000
31	0.001		0.000	0.001		0.000		0.000		0.000	0.000	
TOTAL	0.031	0.030	0.026	0.022	0.020	0.001	0.002	0.000	0.000	0.000	0.000	0.000
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000
MIN	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
AC-FT	0.06	0.06	0.05	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CALAZO	2002	TOTAL 0.644	MEANIC	00 34437 0	005 MINT	0.000 A.C.E	TT 1.2					

CAL YR 2003 TOTAL 0.644 MEAN 0.00 MAX 0.005 MIN 0.000 AC-FT 1.3 WTR YR 2004 TOTAL 0.132 MEAN 0.00 MAX 0.001 MIN 0.000 AC-FT 0.3

e Estimated.

#### 382628104493700 TURKEY CREEK WEST SEEPAGE BELOW TELLER RESERVOIR NEAR STONE CITY, CO

 $LOCATION.--Lat\ 38^{\circ}26'28", long\ 104^{\circ}49'37", in\ SW^{1}_{4}NW^{1}_{4}\ sec. 31, T.18\ S., R.66\ W., Pueblo\ County, Hydrologic\ Unit\ 11020002, on\ Fort\ Carson\ Military\ Reservation, at base of right downstream end of\ Teller\ Dam on\ Turkey\ Creek, and\ 1.9\ mi\ east\ of\ Stone\ City.$ 

DRAINAGE AREA .-- Indeterminate

 $PERIOD\ OF\ RECORD. -- October\ 2001\ to\ current\ year.\ For\ a\ complete\ listing\ of\ historical\ data\ available\ for\ this\ site,\ see\ http://waterdata.usgs.gov/co/nwis/inventory/\\ ?site\_no=382628104493700$ 

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,420 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by Teller Reservoir contents (station 07099233) and saturation of earthfill dam.

EXTREMES FOR PERIOD OF RECORD (dam seepage only) .-- No flow during period of record.

EXTREMES FOR CURRENT YEAR (dam seepage only).--No flow during current year.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24 25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.000
31	0.000		0.000	0.000		0.000		0.000		0.000	0.000	
TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CAL YR	2003	TOTAL 0.000	MEAN 0.0	0 MAX	0.000 MIN (	0.000 AC-F	Т 0.00					
WTR YR	2004	TOTAL 0.000					T 0.00					

#### 07099235 TURKEY CREEK NEAR STONE CITY, CO

LOCATION.--Lat 38°25′56", long 104°49′58", in SE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.36, T.18 S., R.67 W., Pueblo County, Hydrologic Unit 11020002, on Fort Carson Military Reservation, on left bank at downstream end of culverts on military road 14, 1.1 mi downstream from Teller Reservoir Dam, and 2.0 mi southeast of Stone City.

DRAINAGE AREA.--72.4 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1978 to September 1984, June 1987 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07099235

REVISED RECORDS .-- WDR CO-80-1: 1979(M).

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 5,350 ft above NGVD of 1929, from topographic map. Prior to June 12, 1987, at site 1.0 mi upstream at different datum. June 12, 1987 to Dec. 6, 1989, at site 0.6 mi upstream at different datum. Dec. 7, 1989 to Dec. 9, 1999, at site 0.9 mi upstream at different datum.

DISCHARGE, CUBIC FEET PER SECOND

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by erosion-control and livestock-watering reservoirs, storage reservoir, diversions for irrigation, ground-water withdrawals, and return flows from irrigated areas. Flow mostly regulated by Teller Reservoir (station 07099233) 1.1 mi upstream. Gage records seepage and releases from reservoir.

				WAT	ER YEAR	OCTOBER 20 DAILY MEAN	03 TO SEPTI					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9 10	$0.00 \\ 0.00$	$0.00 \\ 0.00$	0.00	$0.00 \\ 0.00$	0.00	0.00 0.00	0.00 0.00	$0.00 \\ 0.00$	0.00 0.00	0.00	0.00 0.00	$0.00 \\ 0.00$
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23 24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24 25	0.00 0.00	0.00	0.00	0.00	0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00	0.00 0.00	$0.00 \\ 0.00$
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00		0.00	0.00		0.00		0.00		0.00	0.00	
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STATIST	ICS OF MO	NTHLY MEA	AN DATA F	OR WATER	YEARS 19	78 - 2004, BY	WATER YE	EAR (WY)				
MEAN	0.32	0.33	0.73	0.46	0.41	0.40	0.37	1.19	2.05	0.99	0.73	0.53
MAX	1.64	1.57	10.8	5.23	3.69	3.54	2.75	8.37	20.3	9.78	4.43	3.03
(WY)	(1983)	(1983)	(2000)	(2000)	(2000)	(2000)	(2000)	(1995)	(1995)	(1995)	(1995)	(1995)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)
SUMMAI	RY STATIS	TICS		FOR 2003	CALENDA	AR YEAR	FOR 2	2004 WATER	YEAR	WATE	R YEARS	1978 - 2004
ANNUAL					0.00			0.00			0.71	
ANNUAL		MEAN			0.00			0.00			0.71	1005
HIGHEST	ANNUAL	MEAN									3.93	1995
LUWEST	ANNUAL I	VIEAN			0.00	Jan 1		0.00	Oct 1		0.00 70	2002 May 31, 1995
	DAILY ME					Jan 1			Oct 1		a0.00	Sep 17, 1989
		AY MINIMU	М			Jan 1			Oct 1		0.00	Apr 14, 2001
	JM PEAK F		171		0.00	yun 1		0.00	JCC 1		b83	May 30, 1995
	JM PEAK S'										c6.29	May 30, 1995
	RUNOFF (				0.00			0.00			515	.,, .,,,
	ENT EXCEE				0.00			0.00			1.6	
50 PERCE	ENT EXCEE	EDS			0.00			0.00			0.13	
90 PERCE	ENT EXCEE	EDS			0.00			0.00			0.00	

a Also occurred on many days during 2000-2004.

b From rating curve extended above 62 ft<sup>3</sup>/s.

c Site and datum then in use.

#### 07099238 TELLER RESERVOIR SPILLWAY NEAR STONE CITY, CO

 $LOCATION.--Lat~38°26'20", long~104°49'15", in~NE^{1}_{4}SW^{1}_{4} sec. 31,~T.18~S.,~R.66~W.,~Pueblo~County,~Hydrologic~Unit~11020002, on~Fort~Carson~Military~Reservation, on~right~bank~0.4~mi~southeast~of~Teller~Reservoir~Dam~on~Turkey~Creek,~and~1.2~mi~southeast~of~Stone~City.$ 

DRAINAGE AREA.--71.5 mi<sup>2</sup>.

PERIOD OF RECORD.--October 2000 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=07099238

GAGE.--Water-stage recorder with satellite telemetry and broad-crested weir. Elevation of gage is 5,480 ft above NGVD of 1929, from topographic map.

REMARKS.--Records poor. Records represent uncontrolled overflow from Teller Reservoir and local storm runoff. There was no overflow from Teller Reservoir during the year. Published flows represent local storm runoff.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES  DAY OCT NOV DEC IAN FEB MAR APR MAY IUN IUI. AUG SEP													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00		
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
22	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00		
23	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00		
24	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00		
25	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00		
26 27 28 29 30 31	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	e0.00 e0.00 e0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00		
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00		
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00		
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00		
MEAN MAX (WY) MIN (WY)	0.00 0.00 (2002) 0.00 (2002)	0.00 0.00 (2001) 0.00 (2001)	0.00 0.00 (2001) 0.00 (2001)	0.00 0.00 (2001) 0.00 (2001)	YEARS 2001 0.00 0.00 (2001) 0.00 (2001)	0.01 0.04 (2003) 0.00 (2001)	0.00 0.01 (2003) 0.00 (2001)	0.01 0.02 (2003) 0.00 (2002)	0.02 0.05 (2003) 0.00 (2002)	0.01 0.02 (2002) 0.00 (2004)	0.01 0.01 (2001) 0.00 (2002)	0.00 0.00 (2003) 0.00 (2001)		
SUMMAI	RY STATIST	ΓICS		FOR 2003	CALENDAR	YEAR	FOR 20	004 WATER Y	/EAR	WATE	R YEARS 2	2001 - 2004		
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK FLOW MAXIMUM PEAK FLOW MORITH DEN BEAN BEAN BEAN BEAN BEAN BEAN BEAN BE				4.52 0.01 0.99 Mar 0.00 Jan 0.00 Jan 9.0 0.00 0.00 0.00	1		0.00 Oc 0.00 Oc b0.53 Au	g 20 tt 1 tt 1 g 20 g 20		0.00 0.01 0.00 0.99 a0.00 0.00 b25 3.97 3.4 0.00 0.00	2003 2004 Mar 18, 2003 Oct 20, 2000 Oct 20, 2000 Jun 18, 2003 Jun 18, 2003			

e Estimated.

a No flow on most days.

b From rating curve based on open-channel flow computations.

#### 07099400 ARKANSAS RIVER ABOVE PUEBLO, CO

LOCATION.--Lat 38°16′18", long 104°43′03", in NE½4NE½4 sec.36, T.20 S., R.66 W., Pueblo County, Hydrologic Unit 11020002, on left bank 200 ft downstream from northeast corner of Arkansas River bridge, 0.4 mi downstream from Pueblo Dam, and 7 mi west of Pueblo.

PERIOD OF RECORD.--October 1965 to current year. Statistical summary computed for 1975 to current year subsequent to completion of Pueblo Reservoir. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07099400

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,740 ft above NGVD of 1929, from topographic map. Prior to Mar. 23, 1967, at site 730 ft upstream at datum 2.23 ft higher. Mar. 24, 1967 to May 23 1974 at present site at datum 1.00 ft highter. May 24, 1974 to Feb. 24, 1975, at site 2,000 ft downstream, at different datum. Feb. 25, 1975 to Sept. 30, 2001, at or within 50 ft of present location at datum 1.00 ft higher.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by storage reservoirs, power developments, transbasin and transmountain diversions, diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants. Flow completely regulated by Pueblo Reservoir (station 07099350) 0.4 mi upstream since Jan. 9, 1974.

COOPERATION .-- Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

					R YEAR OC	, CUBIC FEE FOBER 2003 LY MEAN V	TO SEPTEM					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	40 46 52 86 107	88 113 150 194 195	72 72 73 73 74	77 77 78 78 78	102 109 123 140 158	113 104 110 113 113	121 108 146 175 195	328 381 404 352 276	850 843 816 789 819	813 735 623 540 475	501 535 535 530 200	62 66 69 74 93
6 7 8 9 10	125 135 137 135 118	169 169 155 147 146	74 74 74 74 74	78 77 77 78 78	167 167 166 167 167	110 110 110 110 110 145	224 251 255 283 395	249 356 542 543 608	1,020 1,480 1,890 1,840 1,840	453 450 421 335 240	95 85 86 94 118	124 136 152 138 91
11 12 13 14 15	106 96 85 80 80	145 140 179 111 102	75 75 75 75 74	78 78 78 80 92	153 139 138 139 139	263 324 351 346 196	438 439 355 333 330	798 1,020 1,100 1,040 902	1,970 1,860 1,540 1,020 776	216 213 244 265 247	120 108 341 424 391	64 64 65 75 82
16 17 18 19 20	80 80 80 80	103 85 69 70 70	74 74 75 75 76	101 101 101 101 102	139 139 130 119 119	193 140 142 246 263	319 235 176 182 160	879 817 755 743 919	843 956 1,050 1,110 1,050	241 378 480 684 891	178 60 69 93 93	77 77 77 77 76
21 22 23 24 25	91 100 120 135 134	71 71 71 70 71	76 77 77 77 77	102 102 101 102 102	119 119 119 119 119	263 201 108 110 139	140 143 258 417 454	1,200 1,300 1,130 942 921	781 563 586 545 511	836 808 814 898 746	91 167 247 319 346	77 77 108 158 123
26 27 28 29 30 31	134 107 88 87 88 89	71 71 71 71 72	76 75 75 76 76 77	102 103 102 102 102 102	119 119 119 119 	177 178 181 182 182 158	456 522 562 483 346	1,170 1,380 1,290 1,050 944 877	513 607 660 748 825	585 466 466 575 629 509	346 246 169 170 145 106	101 110 119 119 118
TOTAL MEAN MAX MIN AC-FT	3,001 96.8 137 40 5,950	3,310 110 195 69 6,570	2,321 74.9 77 72 4,600	2,810 90.6 103 77 5,570	3,891 134 167 102 7,720	5,481 177 351 104 10,870	8,901 297 562 108 17,660	25,216 813 1,380 249 50,020	30,701 1,023 1,970 511 60,900	16,276 525 898 213 32,280	7,008 226 535 60 13,900	2,849 95.0 158 62 5,650
STATIST							ATER YEAR	R (WY)				
MEAN MAX (WY) MIN (WY)	AX 1,103 505 553 VY) (1985) (1985) (1987) IIN 32.4 45.6 0.78			164 558 (1985) 10.7 (2003)	199 837 (1985) 25.2 (2003)	304 718 (1985) 70.0 (2003)	564 1,389 (1985) 125 (1978)	1,140 2,564 (1984) 374 (1978)	2,250 4,219 (1980) 386 (2002)	1,528 4,110 (1995) 281 (2002)	961 2,716 (1984) 16.5 (2002)	421 1,040 (1982) 4.10 (2002)
SUMMAR	RY STATIST	TICS		FOR 2003 C	'ALENDAR '	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 197	5 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW		M		)	3		70 Jur 10 Oc 70 Nov	n 11 t - 1 7 18 n 11	1,2	c0.45 No 0.49 No	1984 2002 an 23, 1997 by 22, 2002 by 26, 2002 an 23, 1997	
MAXIMU ANNUAL	M PEAK ST RUNOFF (A ENT EXCEE	TAGE AC-FT)		245,900 952			221,70	5.16 Jur 00	n 11	499,5 1,7	f7.29 Ju	ın 23, 1997

Average discharge for 8 years (water years 1966-73), 643 ft<sup>3</sup>/s; 465,900 acre-ft/yr, prior to completion of Pueblo Dam. Also the maximum daily discharge for period of record.

50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

139

360

85

Also occurred Dec 2, 2002. Also minimum daily discharge for period of record.

Maximum discharge for period of record, 10,100 ft<sup>3</sup>/s, Aug 1, 1966, from rating curve extended above 1,600 ft<sup>3</sup>/s, on basis of slope-area measurement of peak flow. Datum then in use; maximum gage height, 7.57 ft, Jun 14, 1985, datum then in use; maximum gage height for period of record, 13.12 ft, Aug 1, 1966, site and datum then in use.

#### 07099970 ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO

 $LOCATION.--Lat\ 38^{\circ}15'13'', long\ 104^{\circ}36'20'', in\ SW^{1}_{4}NW^{1}_{4}sec.6,\ T.21\ S.,\ R.64\ W.,\ Pueblo\ County,\ Hydrologic\ Unit\ 11020002,\ on\ right\ bank\ 10\ ft\ upstream\ from\ Saint\ Charles\ Mesa\ Water\ District\ intake\ at\ Moffat\ Street\ at\ Pueblo,\ 150\ ft\ downstream\ from\ Santa\ Fe\ Avenue\ bridge,\ and\ 1.1\ mi\ upstream\ from\ Fountain\ Creek.$ 

DRAINAGE AREA.--4.778 mi<sup>2</sup>.

 $PERIOD\ OF\ RECORD. --October\ 1988\ to\ current\ year.\ For\ a\ complete\ listing\ of\ historical\ data\ available\ for\ this\ site,\ see\ http://waterdata.usgs.gov/co/nwis/inventory/\\?site\_no=07099970$ 

REVISED RECORDS: WDR CO-90-1: 1989(M).

GAGE.--Water-stage recorder with satellite telemetry and concrete control. Elevation of gage is 4,653 ft above NGVD of 1929, from topographic map.

REMARKS.—Records good except for estimated daily discharges, which are poor. Records do not include diversion for municipal supply of Saint Charles Mesa Water District. Natural flow of stream affected by storage reservoirs, power developments, transbasin and transmountain diversions, diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants. Flow almost completely regulated by Pueblo Reservoir (station 07099350) 8 mi upstream since Jan. 9, 1974.

					R YEAR OC		ET PER SECC TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	16 16 16 32 63	42 56 87 130 149	37 36 36 36 36	33 33 34 34 35	56 60 71 89 106	65 54 59 65 84	85 72 131 126 123	306 349 355 297 216	817 807 796 774 795	780 715 623 551 496	468 508 509 519 214	31 35 35 39 49
6 7 8 9 10	72 83 79 73 67	119 123 113 99 99	38 37 e34 e29 29	34 33 30 30 30	117 119 119 120 119	71 69 69 75 98	164 186 206 264 358	185 289 488 489 535	946 1,390 1,900 1,840 1,830	466 464 448 374 290	146 57 51 104 88	74 90 104 114 69
11 12 13 14 15	52 46 35 30 32	98 91 146 75 52	28 29 29 29 29	31 31 31 32 45	110 87 89 86 85	228 289 322 322 184	392 389 336 288 287	686 878 968 935 815	1,970 1,900 1,550 1,070 766	201 198 225 260 244	75 70 236 378 346	33 34 33 36 51
16 17 18 19 20	32 31 30 30 30	55 54 35 29 33	28 24 25 31 31	56 57 57 59 59	85 86 82 84 66	150 122 78 195 217	265 184 132 132 120	787 759 703 693 809	804 943 1,010 1,080 1,020	221 326 458 579 798	183 38 71 131 74	47 46 45 45 48
21 22 23 24 25	35 48 57 76 76	35 29 29 29 35	31 31 38 27 27	59 56 52 51 52	62 62 62 62 62	217 183 72 69 88	99 161 302 369 401	1,080 1,190 1,070 869 860	825 576 607 570 532	753 721 726 776 692	77 120 187 266 311	54 57 64 117 96
26 27 28 29 30 31	77 64 50 52 49 47	36 35 35 35 35	27 25 26 26 29 28	59 64 58 56 56 56	67 67 67 67 	134 135 136 134 133 122	403 459 516 474 359	1,070 1,310 1,250 1,030 901 864	526 662 655 715 794	551 448 437 520 575 495	315 244 129 126 112 82	64 72 97 94 94
TOTAL MEAN MAX MIN AC-FT	1,496 48.3 83 16 2,970	2,018 67.3 149 29 4,000	946 30.5 38 24 1,880	1,403 45.3 64 30 2,780	2,414 83.2 120 56 4,790	4,239 137 322 54 8,410	7,783 259 516 72 15,440	23,036 743 1,310 185 45,690	30,470 1,016 1,970 526 60,440	15,411 497 798 198 30,570	6,235 201 519 38 12,370	1,867 62.2 117 31 3,700
						,		` ′	2.005	1 212	002	205
MEAN MAX (WY) MIN (WY)	(WY) (1996) (1998) MIN 19.5 35.7		99.8 330 (1998) 1.85 (2003)	93.8 355 (2000) 1.63 (2003)	125 312 (1996) 1.66 (2003)	280 623 (1997) 33.4 (2003)	514 1,031 (1998) 107 (2002)	1,052 1,716 (1996) 320 (2002)	2,005 4,111 (1997) 310 (2002)	1,312 4,290 (1995) 213 (2002)	803 1,616 (1995) 8.23 (2002)	305 699 (1995) 3.70 (2002)
SUMMARY STATISTICS FOR 2003 CALENDAR YEAR							FOR 200	4 WATER Y	EAR	WATER	YEARS 198	9 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU	MEAN ANNUAL M ANNUAL M DAILY ME DAILY ME	IEAN AN AN Y MINIMUN OW 'AGE	Л		5 ) Jun 1.4 Mar 1.4 Mar	8	2,11	66 Jun 6 Oct 7 Dec 0 Jun 0.64 Jun	t 1 : 24 : 11	1,	a1.4 M 1.4 M 400 Ju 14.18 Ju	1995 2002 un 23, 1997 ar 8, 2003 ar 8, 2003 un 3, 1994 un 3, 1994
10 PERCE 50 PERCE	ENT EXCEE ENT EXCEE ENT EXCEE	DS DS		813 71	3		79 9			1,	550 282 37	

e Estimated.

a Also occurred Mar. 9-14, 2003.

b From rating curve extended above 5,190 ft<sup>3</sup>/s on basis of slope-conveyance and area-velocity study.

#### 07099990 FOUNTAIN CREEK AT GREEN MOUNTAIN FALLS, CO

LOCATION.--Lat 38°56′20″, long 105°00′55″, in NW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.8, T.13 S., R.68 W., El Paso County, Hydrologic Unit 11020003, on left bank at upstream side of bridge on Green Mountain Falls Road at Green Mountain Falls, 0.2 mi south of U.S. Highway 24, 0.4 mile upstream from North Catamount Creek, and 1.3 miles downstream from Crystola Creek.

DRAINAGE AREA.--16.6 mi<sup>2</sup>.

PERIOD OF RECORD.--April 2001 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=07099990

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 7,740 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, diversions for irrigation, groundwater withdrawals, and return flows from irrigated areas.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES  DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	0.49	0.54	0.58	0.61	e0.52	0.59	1.4	5.0	0.93	1.5	2.6	1.2		
2	0.53	0.59	0.56	0.66	e0.54	0.56	1.5	5.4	0.93	1.1	2.7	1.3		
3	0.55	0.65	0.56	e0.66	e0.55	0.60	1.7	5.0	0.93	0.82	2.7	1.2		
4	0.56	0.63	0.56	e0.69	0.55	0.66	1.6	4.6	0.93	0.93	3.4	1.3		
5	0.57	0.61	0.55	e0.71	0.51	0.64	1.8	4.2	0.87	0.81	3.3	1.3		
6	0.63	0.62	0.58	e0.75	e0.52	0.63	2.0	4.6	0.77	0.81	2.6	1.3		
7	0.67	0.64	0.62	0.79	e0.52	0.70	1.9	3.9	0.75	0.94	2.2	1.2		
8	0.75	0.65	e0.65	0.73	e0.52	0.81	1.8	3.4	0.75	0.81	1.8	1.3		
9	0.82	0.68	e0.68	0.75	e0.51	0.86	1.9	2.9	0.72	0.80	1.8	1.3		
10	0.76	0.64	e0.68	0.77	e0.51	0.79	2.0	2.5	0.66	0.94	1.6	1.3		
11	0.68	0.65	0.68	0.73	e0.51	0.78	2.1	2.2	0.63	0.66	1.5	1.2		
12	0.61	0.61	0.64	0.71	e0.50	0.79	1.9	2.1	0.69	0.64	1.7	1.2		
13	0.73	0.63	0.63	0.72	e0.50	0.75	2.3	2.5	0.66	0.56	1.6	1.2		
14	0.57	0.66	0.63	0.65	e0.50	0.74	2.4	2.7	0.63	0.52	1.5	1.1		
15	0.54	0.66	e0.64	0.66	0.49	0.69	2.3	2.2	0.63	2.7	1.2	1.1		
16	0.61	0.66	e0.63	0.64	0.50	0.63	1.9	1.8	0.67	2.9	1.0	0.98		
17	0.47	0.63	0.63	0.66	0.54	0.76	2.1	1.7	0.72	3.2	1.1	0.94		
18	0.53	0.59	0.68	0.68	0.55	0.94	2.4	1.7	0.73	2.3	2.7	0.83		
19	0.57	0.58	0.74	0.65	0.52	1.2	3.3	1.6	0.75	4.0	2.3	0.96		
20	0.56	0.56	0.74	e0.65	0.55	1.3	3.2	1.9	0.73	1.9	3.2	1.0		
21	0.59	0.53	0.67	e0.64	0.54	1.3	3.0	1.8	0.99	0.96	3.9	1.1		
22	0.59	0.54	0.64	e0.63	0.54	1.1	3.2	1.6	1.3	1.1	2.2	1.4		
23	0.55	e0.58	e0.64	e0.60	0.55	1.6	3.4	1.5	0.86	7.9	2.5	1.4		
24	0.60	0.63	e0.64	e0.58	0.56	1.7	3.6	1.4	0.75	4.4	1.9	1.2		
25	0.63	0.67	e0.64	e0.55	0.57	1.8	4.2	1.4	0.75	4.1	1.8	1.2		
26 27 28 29 30 31	0.51 0.56 0.59 0.55 0.49 0.49	0.66 0.60 0.57 0.52 0.56	e0.63 e0.63 e0.62 0.62 0.57	e0.53 e0.53 0.52 0.49 0.50 0.52	0.59 0.60 0.61 0.59	1.6 1.5 1.6 1.4 1.4	3.4 4.7 6.0 5.5 5.3	1.4 1.2 1.2 1.1 1.1	2.2 2.1 1.9 1.9 1.7	2.5 2.0 3.0 3.6 2.8 2.7	1.5 1.7 1.9 1.4 1.2	1.2 1.3 1.3 1.3		
TOTAL	18.35	18.34	19.59	19.96	15.56	31.72	83.8	76.6	29.53	63.90	63.7	35.81		
MEAN	0.59	0.61	0.63	0.64	0.54	1.02	2.79	2.47	0.98	2.06	2.05	1.19		
MAX	0.82	0.68	0.74	0.79	0.61	1.8	6.0	5.4	2.2	7.9	3.9	1.4		
MIN	0.47	0.52	0.55	0.49	0.49	0.56	1.4	1.0	0.63	0.52	1.0	0.83		
AC-FT	36	36	39	40	31	63	166	152	59	127	126	71		
MEAN	0.73	0.76	0.71	0.74	0.72	1.03	2.17	1.96	1.08	1.18	1.14	0.79		
MAX	0.90	1.03	0.95	0.98	0.95	1.24	2.79	3.08	1.66	2.06	2.05	1.19		
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2004)	(2001)	(2001)	(2004)	(2004)	(2004)		
MIN	0.59	0.61	0.55	0.60	0.54	0.82	1.50	1.01	0.59	0.44	0.48	0.50		
(WY)	(2004)	(2004)	(2003)	(2003)	(2004)	(2003)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)		
SUMMAF	RY STATIST	TCS		FOR 2003	CALENDAR	YEAR	FOR 200	)4 WATER Y	EAR	WATER	YEARS 20	01 - 2004		
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS		М	60	3.04 0.83 3.0 Jun 0.28 Jul 0.32 Jul 11.3 0.66 0.46	21	47 a13 94	0.47 Oc 0.50 Fel 38 Ju 5.97 Ju	1 23 t 17 b 10 d 15 l 15		0.28 0.32 183	2004 2003 Jul 13, 2001 Jul 21, 2003 Jul 20, 2003 Jul 13, 2001 Jul 13, 2001			

From rating curve extended above 5.8 ft<sup>3</sup>/s on basis of slope-conveyance measurement of peak flow. a From rating curve extended above 3.0 to 10 to

#### 07103700 FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO

LOCATION.--Lat 38°51'17", long 104°52'39", in SE½3SW½4 sec.3, T.14 S., R.67 W., El Paso County, Hydrologic Unit 11020003, on left bank 200 ft upstream from diversion to city of Colorado Springs, 0.5 mi east of bridge on U.S. Highway 24, 1.0 mi downstream from Sutherland Creek, and 3.3 mi northwest of courthouse in Colorado Spring.

DRAINAGE AREA.--103 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1958 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=07103700

REVISED RECORDS .-- WDR CO-99-1: 1997(M).

GAGE.--Water-stage recorder with satellite telemetry, crest-stage gage, and V-notch weir. Elevation of gage is 6,110 ft above NGVD of 1929, from topographic map. Feb. 4 to Apr. 15, 1992, gage temporarily located 80 ft upstream, at same datum.

REMARKS.--No estimated daily discharges. Records fair. Natural flow of stream affected by storage reservoirs, power developments, transmountain diversions, diversions for irrigation and municipal use, ground-water withdrawals, and return flows from irrigated areas.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES  DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP													
FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP						
5.6 4.8 5.4 6.0 5.4	5.2 5.9 5.7 5.9 8.2	5.9 6.9 24 13	23 22 22 22 22 25	7.5 7.4 8.5 8.4 8.5	17 15 13 11	19 18 18 46 57	26 24 22 22 23						
5.4 5.5 5.5 4.8 4.6	6.9 6.3 6.7 7.1 7.6	13 12 20 17 17	27 27 25 23 21	8.8 8.0 7.3 7.3 8.0	10 9.6 7.3 6.7 7.5	63 59 55 52 49	22 19 18 17						
5.0 4.5 4.9 6.1 6.0	7.4 7.0 7.2 7.2 7.0	14 14 14 14 17	21 16 18 19 16	6.5 6.1 5.8 5.2 6.1	6.9 6.8 5.9 5.4 9.2	46 42 34 30 27	16 17 19 18 17						
5.2 5.1 5.4 5.4 5.3	6.5 6.4 6.6 7.1 7.5	18 19 18 17 16	15 17 14 12 11	9.2 18 11 9.5 8.1	44 49 29 23 39	26 23 31 53 44	17 16 15 16 17						
5.3 5.3 5.2 5.3 5.5	8.1 8.6 8.2 8.6	15 20 19 19 26	11 10 9.9 8.8 8.8	14 13 8.3 7.5	33 17 52 40 35	61 47 46 40 35	19 21 19 18 17						
5.5 5.5 5.3 5.4	8.0 8.0 7.0 6.2 5.9 5.8	24 27 28 32 34	9.3 8.6 8.3 8.6 8.9 8.3	15 29 18 13 17	33 32 31 30 26 22	35 43 36 32 30 28	17 17 19 19 20						
5.32 6.1 4.5 306	7.03 8.6 5.2 432 1		496.5 16.0 27 8.3 985	311.0 10.4 29 5.2 617	677.3 21.8 52 5.4 1,340	1,225 39.5 63 18 2,430	564 18.8 26 15 1,120						
		`	· ·	30.8	21.3	20.8	14.5						
13.6 (1986) 4.44	16.9 (1998) 4.91 (1965)	65.1 (1999) 5.90 (1963)	172 (1980) 6.37 (1989)	198 (1997) 4.08 (2002)	108 (1995) 3.31 (2002)	90.5 (1999) 3.48 (2002)	43.2 (1999) 4.34 (2002)						
CALENDAR YEA	AR	FOR 2004	WATER YE	AR	WATER	YEARS 1958	3 - 2004						
7.49 23 Jun 26 2.8 Jan 10 3.9 Feb 3		63 2.4 4. 680 5. 9,610	Aug 8 Dec 2 4 Oct 2 Aug 70 Aug	28 16 4	a2,6 11,5	46.3 5.72 13 Ap 1.9 Ju 2.3 Ju 30 Aug b5.27 Aug	1999 2002 r 30, 1999 1 3, 2002 n 28, 2002 g 4, 1964 g 4, 1964						
	FEB  5.6 4.8 5.4 6.0 5.4 5.4 5.5 5.5 5.5 4.8 4.6 5.0 4.5 4.9 6.1 6.0 5.2 5.1 5.4 5.4 5.3 5.3 5.3 5.3 5.3 5.3 5.4 154.2 5.32 6.1 4.5 306  YEARS 1958 - 20 7.65 13.6 (1986) 4.44 (1972)  CALENDAR YE. 35.6 7.49  23 Jun 26 2.8 Jan 10 3.9 Feb 3	FEB MAR  5.6 5.2 4.8 5.9 5.4 5.7 6.0 5.9 5.4 8.2 5.4 6.9 5.5 6.3 5.5 6.7 4.8 7.1 4.6 7.6 5.0 7.4 4.5 7.0 4.9 7.2 6.1 7.2 6.0 7.0 5.2 6.5 5.1 6.4 5.4 6.6 5.4 7.1 5.3 7.5 5.3 8.1 5.3 8.1 5.2 8.6 5.3 8.2 5.5 8.0 5.3 7.0 5.4 6.2 6.2 6.3 8.1 7.03 6.1 8.6 6.9 (1986) (1998) 4.44 4.91 (1972) (1965)   CALENDAR YEAR  35.6 7.49  23 Jun 26 2.8 Jan 10 3.9 Feb 3	FEB MAR APR  5.6 5.2 5.9 4.8 5.9 6.9 5.4 5.7 24 6.0 5.9 13 5.4 8.2 13 5.4 6.9 13 5.5 6.3 12 5.5 6.7 20 4.8 7.1 17 4.6 7.6 17 5.0 7.4 14 4.5 7.0 14 4.9 7.2 14 6.1 7.2 14 6.0 7.0 17 5.2 6.5 18 5.1 6.4 19 5.4 6.6 18 5.4 7.1 17 5.3 7.5 16 5.3 8.1 15 5.3 8.1 15 5.3 8.1 20 5.2 8.6 19 5.3 8.1 20 5.5 8.0 24 5.5 8.0 24 5.5 8.0 27 5.3 7.0 28 5.4 6.2 32 5.9 34 5.9 34 5.8 154.2 217.9 546.8 5.32 7.03 18.2 6.1 8.6 34 4.5 5.2 5.9 306 432 1,080  YEARS 1958 - 2004, BY WATER YEAR ( 7.65 9.04 14.8 13.6 16.9 65.1 (1986) (1998) (1999) 4.44 4.91 5.90 (1972) (1965) (1963)  CALENDAR YEAR FOR 2004 35.6 4,845.5 7.49 13.	FEB MAR APR MAY  5.6 5.2 5.9 23  4.8 5.9 6.9 22  5.4 5.7 24 22  6.0 5.9 13 22  5.4 6.9 13 25  5.4 6.9 13 27  5.5 6.3 12 27  5.5 6.7 20 25  4.8 7.1 17 23  4.6 7.6 17 21  5.0 7.4 14 21  4.5 7.0 14 16  4.9 7.2 14 18  6.1 7.2 14 19  6.0 7.0 17 16  5.2 6.5 18 15  5.1 6.4 19 17  5.4 6.6 18 14  5.4 7.1 17 12  5.3 8.1 15  5.1 6.4 19 17  5.4 6.6 18  4.5 7.1 17 12  5.3 8.1 15  5.1 6.4 19 17  5.4 6.6 18  5.4 6.6 18  5.5 8.0 24 9.3  5.5 8.6 26 8.8  5.5 8.6 26 8.8  5.5 8.0 24 9.3  5.5 8.0 27 8.6  5.3 7.0 28 8.3  5.4 6.2 32 8.6  5.5 8.0 27 8.6  5.3 7.0 28 8.3  5.4 6.2 32 8.6  5.5 8.0 27 8.6  5.3 7.0 28 8.3  5.4 6.2 32 8.6  5.5 8.0 27 8.6  5.3 7.0 28 8.3  5.4 6.2 32 8.6  5.5 8.0 27 8.6  5.3 7.0 28 8.3  5.4 6.2 32 8.6  5.5 8.0 27 8.6  5.3 7.0 28 8.3  5.4 6.2 32 8.6  5.5 8.0 27 8.6  5.3 7.0 28 8.3  5.4 6.2 32 8.6  5.5 8.0 27 8.6  5.3 7.0 28 8.3  5.4 6.2 32 8.6  5.5 8.0 27 8.6  5.3 7.0 28 8.3  5.4 6.2 32 8.6  5.5 8.0 27 8.6  5.3 7.0 28 8.3  5.4 6.2 32 8.6  5.5 8.0 27 8.6  5.3 7.0 28 8.3  5.4 6.2 32 8.6  5.5 8.0 27 8.6  5.3 7.0 28 8.3  5.4 6.2 32 8.6  5.5 8.0 27 8.6  5.3 7.0 28 8.3  5.4 6.2 32 8.6  5.5 8.0 27 8.6  5.3 7.0 28 8.3  5.4 6.2 32 8.6  5.5 8.0 27 8.6  5.3 7.0 28 8.3  5.4 6.2 32 8.6  5.5 8.0 27 8.6  5.3 7.0 28 8.3  5.4 6.2 32 8.6  5.5 8.0 27 8.6  5.3 7.0 28 8.3  5.4 6.2 32 8.6  5.5 8.0 27 8.6  5.3 7.0 28 8.3  5.4 6.2 32 8.6  5.5 8.0 27 8.6  5.3 7.0 28 8.3  5.4 6.2 32 8.6  5.5 9.04 14.8 32.5  5.3 306 432 1,080 985   YEARS 1958 - 2004, BY WATER YEAR (WY)  7.65 9.04 14.8 32.5  6.80 Aug 5.70 Aug	FEB MAR APR MAY JUN  5.6 5.2 5.9 23 7.5  4.8 5.9 6.9 22 7.4  5.4 5.7 24 22 8.5  6.0 5.9 13 22 8.4  5.4 8.2 13 25 8.5  5.4 6.9 13 27 8.8  5.5 6.3 12 27 8.0  5.5 6.3 12 27 8.0  5.5 6.7 20 25 7.3  4.8 7.1 17 21 8.0  5.0 7.4 14 21 6.5  4.5 7.0 14 16 6.1  4.9 7.2 14 19 5.2  6.0 7.0 17 16 6.1  5.2 6.5 18 15 9.2  5.1 6.4 19 17 18  5.4 6.6 18 14 11  5.4 7.1 17 12 9.5  5.3 8.1 15 11 14  5.3 8.1 15 11 14  5.3 8.1 15 11 14  5.3 8.1 15 11 14  5.3 8.1 15 11 14  5.3 8.1 15 11 14  5.3 8.1 15 11 14  5.3 8.1 15 11 14  5.3 8.1 20 10 13  5.2 8.6 19 9.9 8.3  5.3 8.2 19 8.8 7.5  5.5 8.0 27 8.6 29  5.3 7.0 28 8.3 18  5.4 6.2 32 8.6 13  5.9 34 8.9 17  5.8 8.3  154.2 217.9 546.8 496.5 311.0  5.3 8.1 8.6 34 27 29  4.5 5.2 5.9 8.3 5.2  306 432 1,080 985 617  YEARS 1958 - 2004, BY WATER YEAR (WY)  7.65 9.04 14.8 32.5 30.8  CALENDAR YEAR FOR 2004 WATER YEAR  4.845.9  13.0  CALENDAR YEAR FOR 2004 WATER YEAR  4.845.9  13.2  CALENDAR YEAR FOR 2004 WATER YEAR  4.845.9  13.2  CALENDAR YEAR FOR 2004 WATER YEAR  4.845.9  13.2  CALENDAR YEAR FOR 2004 WATER YEAR  4.845.9  13.2	FEB MAR APR MAY JUN JUL  5.6 5.2 5.9 23 7.5 17  4.8 5.9 6.9 22 7.4 15  5.4 5.7 24 22 8.5 13  6.0 5.9 13 22 8.4 11  5.4 6.9 13 27 8.8 10  5.5 6.3 12 27 8.0 9.6  5.5 6.3 12 27 8.0 9.6  5.5 6.3 12 27 8.0 9.6  5.5 6.7 20 25 7.3 7.3 6.7  4.6 7.6 17 21 8.0 7.5  5.0 7.4 14 21 6.5 6.9  4.5 7.0 14 16 6.1 6.8  4.9 7.2 14 19 5.2 5.4  6.0 7.0 17 16 6.1 9.2  5.2 6.5 18 15 9.2 44  4.1 19 5.2 5.4  5.1 6.4 19 17 18 49  5.3 8.1 15 11 14 13  5.3 8.1 20 10 13 17  5.3 8.1 20 10 13 17  5.3 8.1 20 10 13 17  5.3 8.1 20 10 13 17  5.3 8.1 20 10 13 17  5.3 8.1 20 10 13 17  5.3 8.1 20 10 13 17  5.3 8.1 20 10 13 17  5.3 8.1 20 10 13 17  5.3 8.1 20 10 13 17  5.3 8.1 35 11 14 33  5.3 8.1 35 11 14 33  5.3 8.1 35 11 14 33  5.3 8.1 15 11 14 33  5.3 8.1 15 11 14 33  5.3 8.1 20 10 13 17  5.3 8.3 52 19 8.8 7.5 40  5.5 8.0 24 9.3 15  5.5 8.0 27 8.6 29 32  5.3 7.0 28 8.3 18 31  5.4 6.2 32 8.6 13 30  5.5 8.0 27 8.6 29 32  5.3 7.0 28 8.3 18 31  5.4 6.2 32 8.6 13 30  5.5 8.0 27 8.6 29 32  5.3 7.0 28 8.3 15 31  5.4 6.2 32 8.6 13 30  5.5 8.0 24 9.3 15 33  5.4 6.2 32 8.6 13 30  5.5 8.0 24 9.3 15 33  5.4 6.2 32 8.6 13 30  5.5 8.0 24 9.3 15 33  5.4 6.2 32 8.6 13 30  5.5 8.0 24 9.3 15 33  5.5 5.5 8.0 24 9.3 15 33  5.4 6.2 32 8.6 13 30  5.5 5.5 8.0 24 9.3 15 33  5.5 6.0 24 9.3 15 33  5.5 6.0 24 9.3 15 33  5.5 6.0 24 9.3 15 20  5.5 7.0 40 40 40 40 40 40 40 40 40 40 40 40 40	FEB MAR APR MAY JUN JUL AUG  5.6 5.2 5.9 23 7.5 17 19  4.8 5.9 6.9 22 7.4 15 18  5.4 5.7 24 22 8.5 13 18  6.0 5.9 13 22 8.4 11 46  5.4 8.2 13 25 8.5 11 57  5.4 6.9 13 27 8.8 10 63  5.5 6.3 12 27 8.0 9.6 59  5.5 6.3 12 27 8.0 9.6 59  5.5 6.3 12 27 8.0 9.6 59  5.5 6.7 20 25 7.3 7.3 6.7 52  4.8 7.1 17 23 7.3 6.7 52  4.8 7.1 17 23 7.3 6.7 52  4.8 7.1 17 23 7.3 6.7 52  4.5 7.0 14 16 6.1 6.8 42  4.9 7.2 14 18 5.8 5.9 34  6.1 7.2 14 19 5.2 5.4 30  6.0 7.0 17 16 6.1 9.2 27  5.2 6.5 18 15 9.2 44 26  5.1 6.4 19 17 18 49 23  5.4 6.6 18 14 11  5.4 7.1 17 12 9.5 23 53  7.5 16 11 8.1 39 44  5.3 8.1 15 11 14 33 61  5.4 7.1 17 12 9.5 23 53  5.3 8.1 15 11 14 33 61  5.3 8.1 15 11 14 33 61  5.3 8.1 15 11 14 33 61  5.4 7.1 17 12 9.5 23 53  5.5 8.0 24 9.3 15 33 55  5.5 8.0 24 9.3 15 33 55  5.5 8.0 24 9.3 15 33 35  5.5 8.0 27 8.6 29 32 43  5.3 8.2 199 8.8 7.5 40 40  40 40 40 40 40  7.65 9.04 14.8 32.5 30.8 21.3 20.8 18  7.66 9.04 14.8 32.5 30.8 21.3 20.8 18  7.60 1989 1989 1080 1989 1080 1999 1090 2002 (2002) (2002)  CALENDAR YEAR FOR 2004 WATER YEAR WATER YEAR SISS  3.6 4.845.9 13.2 16.0 10.4 21.8 39.5  4.6 63 Aug 6 813 Apg 4.4 4.4 4.9 1 5.90 6.37 4.08 3.31 3.48 5.77  4.6 60 Aug 4 66.3 Aug 6 813 Apg 4.4 4.4 4.9 1 5.90 6.37 4.08 3.31 3.48 3.3 3.5 3.2 3.4 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3						

a From slope-area measurement of peak flow.b Maximum gage height, 7.81 ft, Apr 29, 1999, from floodmark.

#### 07103703 CAMP CREEK AT GARDEN OF THE GODS, CO

LOCATION.--Lat 38°52'37", long 104°52'20", in SE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.34, T.13 S., R.67 W., El Paso County, Hydrologic Unit 11020003, on left bank, 80 ft downstream from county road bridge at east entrance to Garden of the Gods Park at Colorado Springs, and 1.9 mi upstream from mouth.

DRAINAGE AREA --9 45 mi<sup>2</sup>

PERIOD OF RECORD.--April 1992 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Concrete control since September 1993. Elevation of gage is 6,310 ft above NGVD of 1929,

REMARKS.--Records fair. Natural flow of stream may be affected by Palmer Reservoir, 7.9 mi upstream.

#### DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES DAY OCT NOV DEC JAN **FEB** MAR APR MAY JUN JUL AUG SEP 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.000.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.003 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.000.000.000.060.000.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.18 0.00 5 0.00 0.00 0.00 e0.00 0.00 0.01 0.00 0.00 0.000.00 0.02 0.00 $0.00\\0.00$ 0.00 0.00 e0.00 0.00 0.000.000.00 0.00 0.00 0.000.006 7 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00 8 0.00 0.00 0.00 0.00 0.00 0.00 0.05 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 10 0.00 0.00 0.00 0.00 0.00 0.01 0.01 0.00 0.00 0.00 0.00 0.00 11 0.00 12 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 13 0.00 0.00 14 0.00 0.00 0.000.000.000.00 0.000.000.000.000.00 0.0015 0.00 0.000.000.000.000.00 0.000.000.000.01 0.000.000.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.03 0.15 0.00 0.00 16 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.08 0.03 0.01 0.00 0.00 18 0.000.000.000.000.000.000.000.000.000.000.040.0019 0.00 0.00 0.00 0.00 0.00 0.05 0.000.000.000.000.000.000.00 0.00 20 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.00 21 22 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.04 0.00 0.02 0.01 0.000.00 0.00 0.000.00 0.00 0.05 0.000.000.010.00 0.0023 0.00 0.00 0.00 0.00 0.00 0.00 0.02 0.00 0.00 0.12 0.00 0.00 24 0.00 0.000.00 0.00 0.000.00 0.000.00 0.00 0.03 0.00 0.0025 0.00 0.00 0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 26 27 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.03 0.00 0.00 0.00 0.05 28 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00 29 0.00 0.00 0.00 0.00 0.00 0.00 0.00 30 0.00 0.00 0.000.000.00 0.00 0.000.00 0.000.00 0.00 31 0.000.00 0.00---0.00 0.000.000.00TOTAL 0.00 0.00 0.00 0.02 0.23 0.34 0.01 0.00 0.00 0.08 0.15 0.35 MEAN 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.01 0.01 0.01 0.00 MAX 0.000.000.000.000.000.010.06 0.080.050.15 0.180.010.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 MIN 0.000.00AC-FT 0.00 0.00 0.04 0.5 0.3 0.7 0.02 0.00 0.00 0.00 0.2 0.7 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2004, BY WATER YEAR (WY) MEAN 0.01 0.00 0.00 0.00 0.00 0.06 1.87 8.35 4.71 0.61 0.53 0.09 0.38 15.7 45.5 27.7 0.76 MAX 0.12 0.00 0.00 0.01 0.00 6.78 5.66 (WY) (1995)(1999)(1993)(1995)(1998)(1996)(1999)(1999)(1997)(1995)(1999)(1994)MIN 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 (1993)(1993)(1993)(1994)(1994)(1994)(2004)(1993)(WY) (1993)(2000)(1993)(1993)FOR 2003 CALENDAR YEAR SUMMARY STATISTICS FOR 2004 WATER YEAR WATER YEARS 1992 - 2004 ANNUAL TOTAL 0.71 1.18 ANNUAL MEAN 0.00 0.00 6.48 HIGHEST ANNUAL MEAN 1999 LOWEST ANNUAL MEAN 0.00 2002 HIGHEST DAILY MEAN LOWEST DAILY MEAN Apr 29, 1999 0.07May 0.18240 a0.00 Aug 15, 1992 0.00 0.00 Oct 1 Jan ANNUAL SEVEN-DAY MINIMUM Aug 15, 1992 0.00 0.00 Oct 1 0.00 MAXIMUM PEAK FLOW b430 Apr 29, 1999 2.94 c5.40 MAXIMUM PEAK STAGE Jul 16 Apr 29, 1999 1,040 ANNUAL RUNOFF (AC-FT) 2.3 10 PERCENT EXCEEDS 0.00 0.00 0.48

0.00

0.00

0.00

50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

0.00

e Estimated.

No flow on many days during many years. From rating curve extended above 327 ft<sup>3</sup>/s.

From floodmarks.

## 07103740 NORTH MONUMENT CREEK AT SPRING STREET AT PALMER LAKE, CO

LOCATION.--Lat 39°06′56", long 104°54′43", in SW\(^1/4\)SE\(^1/4\) sec.5, T.11 S., R.67 W., El Paso County, Hydrologic Unit 11020003, on left bank at downstream side of bridge on Spring Street at Palmer Lake, 0.1 mi upstream from mouth, and 2.3 mi upstream from Monument Lake.

DRAINAGE AREA.--16.0 mi<sup>2</sup>.

PERIOD OF RECORD.--June 2002 to September 2004 (seasonal records only), discontinued. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07103740

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,120 ft above NGVD of 1929, from topographic map.

REMARKS.—Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs and diversions for municipal supply of Monument and Palmer Lake.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum discharge, 38 ft<sup>3</sup>/s, Apr. 28, 2003, gage height, 4.57 ft, from rating curve extended above 21 ft<sup>3</sup>/s; no flow on many days.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 13 ft<sup>3</sup>/s, Apr. 28, gage height, 4.26 ft, minimum daily, 0.04 ft<sup>3</sup>/s, Sep. 17-19.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						0.08	0.58	8.9	0.84	1.5	0.94	0.13
2						0.06	0.54	8.2	0.80	1.2	0.86	0.11
3						0.06	0.54	7.6	0.74	0.99	0.74	0.10
4						0.07	0.54	7.0	0.74	0.87	0.62	0.10
5						0.07	0.57	6.6	0.68	0.79	0.58	0.10
6						0.11	0.72	6.2	0.62	0.73	0.60	0.11
7						0.13	1.5	5.6	0.56	0.67	0.54	0.10
8						0.14	2.7	5.1	0.51	0.54	0.49	0.09
9						0.15	4.5	4.7	0.47	0.49	0.44	0.09
10						0.15	4.1	4.3	0.43	0.45	0.38	0.08
11						0.16	3.6	3.8	0.36	0.48	0.35	0.07
12						0.18	3.8	4.3	0.31	0.46	0.32	0.06
13						0.21	4.2	3.7	0.28	0.41	0.28	0.06
14						0.24	4.5	3.4	0.24	e0.37	0.25	0.05
15						0.27	4.3	3.4	0.21	e0.40	0.22	0.05
16						0.30	3.9	3.0	0.20	e1.0	0.19	0.05
17						0.33	3.5	2.7	0.19	e1.2	0.17	0.04
18						0.36	3.4	2.6	0.18	e1.8	0.14	0.04
19						0.39	3.0	2.3	0.24	e0.76	0.14	0.04
20						0.44	2.9	2.1	0.41	0.73	0.12	
21						0.49	2.7	2.0	0.53	0.66	0.11	
22						0.54	2.8	1.8	0.71	0.71	0.12	
23						0.63	2.9	1.7	0.64	0.96	0.13	
24						0.74	3.7	1.5	0.59	1.9	0.13	
25						0.73	5.7	1.5	0.60	2.4	0.13	
26						0.68	7.8	1.3	1.0	1.9	0.12	
27						0.63	11	1.2	0.97	1.6	0.15	
28						0.65	12	1.1	1.2	1.6	0.17	
29						0.65	11	1.1	0.96	1.4	0.18	
30						0.64	10	0.99	1.1	1.2	0.17	
31						0.59		0.90		1.1	0.15	
TOTAL						10.87	122.99	110.59	17.31	31.27	9.93	
MEAN						0.35	4.10	3.57	0.58	1.01	0.32	
MAX						0.74	12	8.9	1.2	2.4	0.94	
MIN						0.06	0.54	0.90	0.18	0.37	0.11	
AC-FT						22	244	219	34	62	20	

e Estimated.

#### 07103780 MONUMENT CREEK ABOVE NORTH GATE BOULEVARD AT U.S. AIR FORCE ACADEMY, CO

LOCATION.--Lat 39°01′52", long 104°50′52", in SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.1, T.12 S., R.67 W., El Paso County, Hydrologic Unit 11020003, on U.S. Air Force Academy, on right bank 50 ft upstream from Denver and Rio Grande Western Railroad bridge, 0.8 mi upstream from North Gate Boulevard, and 1.5 mi downstream from Beaver Creek. DRAINAGE AREA.--81.7 mi<sup>2</sup>.

 $PERIOD\ OF\ RECORD. -- April\ 1985\ to\ September\ 2003.\ October\ 2003\ to\ current\ year\ (seasonal\ records\ only).\ For\ a\ complete\ listing\ of\ historical\ data\ available\ for\ this\ site,\ see\ http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07103780$ 

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,640 ft above NGVD of 1929, from topographic map.

REMARKS.—No estimated daily discharges. Records fair. Natural flow of stream affected by storage reservoirs, diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,790 ft<sup>3</sup>/s, Apr. 30, 1999, from slope-area measurement of peak flow, gage height, 9.01 ft, from floodmarks; minimum daily, 0.58 ft<sup>3</sup>/s, Oct. 15, 1989.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 173 ft<sup>3</sup>/s, Aug. 22, gage height, 7.95 ft, from rating curve extended above 54 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow; minimum daily, 1.7 ft<sup>3</sup>/s, Sept. 18 and 21.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5						5.4	20	5.3	6.2	4.7	3.6
2	2.4						3.8	18	4.3	5.2	4.4	3.0
2 3	3.2						3.4	16	4.2	3.8	3.6	3.2
4	2.7						4.3	14	4.0	3.7	3.4	2.6
5	2.6						3.5	14	3.8	4.0	4.8	2.5
6	2.6						3.9	13	3.8	3.9	5.4	2.6
7	2.6						4.0	13	3.7	3.5	4.2	2.6
8	2.5						6.8	12	3.4	3.4	4.3	2.5
9	2.5						7.5	11	2.8	4.4	4.0	2.3
10	2.9						9.1	9.8	2.8	20	4.3	2.5
11	2.6						7.9	7.8	2.7	3.8	3.1	2.1
12	2.5						7.4	6.7	3.0	3.0	3.0	2.0
13	2.5						8.3	8.5	3.4	3.3	4.5	1.9
14	2.7						7.7	9.2	3.4	3.0	4.2	1.9
15	2.6						7.3	8.2	3.4	2.8	4.2	1.9
16	2.5						7.7	7.9	3.5	3.7	4.5	1.9
17	3.1						7.9	7.6	4.0	10	3.9	2.2
18	2.7						6.8	7.9	4.1	3.6	3.7	1.7
19	2.7						6.0	7.8	4.7	2.6	3.7	1.9
20	2.6						6.5	6.9	3.7	2.6	4.1	1.8
21	2.7						6.6	6.9	4.6	2.6	3.9	1.7
22	2.7						8.1	6.3	5.5	2.5	19	1.8
23	2.3						11	6.5	3.6	4.4	15	2.1
24	2.4						14	7.1	4.4	6.4	4.7	2.1
25	2.2						20	6.0	4.6	5.6	4.3	2.0
26	2.4						19	6.8	4.3	5.1	3.5	2.2
27	2.6						20	6.2	18	6.0	4.6	2.2
28	2.7						23	6.3	9.3	5.9	5.5	2.3
29	3.1						22	6.2	4.7	4.5	4.3	2.7
30	3.4						22	6.2	5.4	5.8	4.1	3.0
31	4.0							5.6		5.0	3.7	
TOTAL	83.5						290.9	289.4	138.4	150.3	154.6	68.8
MEAN	2.69						9.70	9.34	4.61	4.85	4.99	2.29
MAX	4.0						23	20	18	20	19	3.6
MIN	2.2						3.4	5.6	2.7	2.5	3.0	1.7
AC-FT	166						577	574	275	298	307	136

#### 07103797 WEST MONUMENT CREEK BELOW RAMPART RESERVOIR, CO

LOCATION.--Lat 38°58'30", long 104°57'18", in  $NE^1/_4SE^1/_4$  sec.26, T.12 S., R.68 W., El Paso County, Hydrologic Unit 11020003, on Pike National Forest, on right bank 0.1 mi below Wildcat Gulch, and 0.5 mi below Rampart Reservoir.

DRAINAGE AREA.--7.29 mi<sup>2</sup>.

 $PERIOD\ OF\ RECORD. -- November\ 1993\ to\ current\ year.\ For\ a\ complete\ listing\ of\ historical\ data\ available\ for\ this\ site,\ see\ http://waterdata.usgs.gov/co/nwis/inventory/\\ ?site\_no=07103797$ 

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,710 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Natural flow of stream affected by storage reservoir and transmountain diversions. Flow mostly regulated by Rampart Reservoir 0.5 mi upstream.

					R YEAR OCT		ET PER SECO TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	4.1 4.1 4.1 4.1 4.0	3.7 3.7 3.9 3.9 3.9	4.9 4.9 4.8 4.8 4.8	4.4 4.5 4.5 4.5 4.5	4.1 4.1 4.1 4.1 4.1	4.2 4.2 4.2 4.0 5.4	3.2 3.3 3.4 3.5 3.6	4.1 3.9 3.8 3.8 3.8	3.6 3.6 3.6 3.6 3.6	3.6 3.6 3.5 3.5 3.5	3.8 3.7 3.7 3.7 3.8	3.8 3.8 3.8 3.8 3.8
6 7 8 9 10	4.1 4.0 4.0 3.8 3.9	3.9 4.1 4.1 4.0 4.0	4.8 4.9 5.1 5.2 5.2	4.5 4.5 4.5 4.5 4.6	4.1 4.1 4.1 4.2 4.2	4.4 3.2 3.3 3.4 3.3	3.6 3.6 3.8 3.7 3.4	3.8 3.8 3.8 3.9	3.6 3.6 3.6 3.7 3.7	3.7 3.8 3.8 4.2 4.4	3.8 3.7 3.7 3.7 3.6	3.8 3.8 3.8 3.9
11 12 13 14 15	3.9 4.0 4.0 4.0 4.0	4.0 4.1 4.3 4.3 4.3	5.2 5.3 5.3 5.3 5.3	4.6 4.6 4.5 4.3 4.3	4.0 4.0 4.0 4.0 4.1	3.4 3.4 3.4 3.4 3.4	3.4 3.4 3.6 3.7	3.9 3.8 3.9 3.9 3.9	3.6 3.6 3.6 3.7	4.3 4.3 4.2 4.3 4.3	3.7 3.7 3.7 3.7 3.7	3.8 3.8 3.7 3.6 3.6
16 17 18 19 20	4.0 4.0 4.0 4.0 4.0	4.3 4.3 4.3 4.3 4.3	5.3 5.3 5.3 5.3 5.2	4.3 4.3 4.3 4.3 4.2	4.0 4.1 4.0 4.1 4.1	3.4 3.4 3.3 3.3 3.5	3.4 3.5 3.5 3.4 3.6	3.9 4.0 4.0 4.0 3.9	3.7 3.8 3.8 3.7 3.7	4.7 4.9 4.9 5.4 5.7	3.8 3.9 4.0 4.2 4.1	3.5 3.5 3.5 3.6 3.5
21 22 23 24 25	4.0 3.9 3.8 3.8 3.8	4.3 4.5 4.6 4.7 4.8	5.3 5.1 4.9 5.0 4.8	4.1 4.1 4.1 4.1 4.1	4.1 4.1 4.1 4.1 4.1	3.6 3.6 3.6 3.6 3.6	3.7 3.7 3.7 4.0 4.2	3.9 4.1 4.0 4.0 4.0	3.6 3.3 3.3 3.4 3.5	5.3 5.2 5.6 5.7 5.3	4.1 4.1 4.0 4.0 4.0	3.6 3.6 3.6 3.6 3.6
26 27 28 29 30 31	3.8 3.8 3.8 3.8 3.8 3.8	4.9 5.1 5.1 5.0 4.9	4.7 4.7 4.5 4.4 4.5 4.4	4.1 4.1 4.1 4.2 4.1 4.1	4.1 4.1 4.1 4.2	3.6 3.6 3.6 3.4 3.1 3.2	4.5 4.8 4.7 4.6 4.3	3.9 3.8 3.8 3.8 3.8 3.7	3.5 3.7 3.8 3.6 3.7	4.9 4.9 4.9 4.8 4.5 4.0	4.0 4.1 4.1 4.0 3.9 3.8	3.6 3.6 3.6 3.6 3.6
TOTAL MEAN MAX MIN AC-FT	122.2 3.94 4.1 3.8 242	129.6 4.32 5.1 3.7 257	154.5 4.98 5.3 4.4 306	133.9 4.32 4.6 4.1 266	118.6 4.09 4.2 4.0 235	112.0 3.61 5.4 3.1 222	112.2 3.74 4.8 3.2 223	120.5 3.89 4.1 3.7 239	108.4 3.61 3.8 3.3 215	139.7 4.51 5.7 3.5 277	119.8 3.86 4.2 3.6 238	110.2 3.67 3.9 3.5 219
MEAN MAX (WY) MIN (WY)	4.42 10.1 (1995) 3.35 (2002)	4.90 10.6 (1995) 2.86 (2002)	5.54 9.68 (1994) 2.90 (2002)	5.32 9.36 (1996) 3.15 (2002)	5.46 8.75 (1996) 3.22 (2002)	5.23 10.7 (1994) 3.16 (2002)	5.55 10.5 (1996) 3.58 (2002)	6.55 17.5 (1996) 3.40 (2002)	6.72 15.1 (1996) 3.14 (2002)	7.45 20.6 (1994) 3.08 (2002)	6.57 15.7 (1994) 3.36 (2002)	5.39 12.2 (1994) 2.90 (2001)
SUMMAR	RY STATIST	ICS		FOR 2003 C	CALENDAR Y	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 1994	4 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS		1	2,810	5.3 Dec 3.2 Jan 3.3 Jan	9		4.05 5.7 Ju 3.1 Mai 3.3 Mai 8.5 Mai 4.62 Mai	r 29 r - 5		1.4 Ja 2.7 No a46 Ju	1996 2002 al 10, 1994 n 14, 1997 v 9, 2001 n 6, 1997 n 6, 1997	

a From rating curve extended above 30 ft<sup>3</sup>/s.

## 07103800 WEST MONUMENT CREEK AT U.S. AIR FORCE ACADEMY, CO

 $LOCATION.--Lat~38°58'14", long~104°54'08", in~SW^{1}_{4}SW^{1}_{4} sec. 28, T.12~S., R.67~W., El~Paso~County, Hydrologic~Unit~11020003, on~Pike~National~Forest, on~left~bank~500~ft~upstream~from~diversion~to~city~of~Colorado~Springs~water-treatment~plant, 2.7~mi~south~of~U.S.~Air~Force~Academy~Chapel,~and~4.4~mi~upstream~from~mouth.$ 

PERIOD OF RECORD.--May 1970 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=07103800

REVISED RECORDS .-- WDR CO-99-1: 1997.

GAGE.--Water-stage recorder with satellite telemetry and V-notch sharp-crested weir. Elevation of gage is 7,180 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, transmountain diversions, and diversions for municipal use. Flow mostly regulated by Rampart Reservoir 4.5 mi upstream, Nichols Reservoir 3.5 mi upstream, and Northfield Reservoir 2.7 mi

					DISCHARGE R YEAR OC DAI		TO SEPTEM					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	3.7	3.5	3.7	3.7	3.7	0.49	2.0	0.67	0.58	0.71	0.48
2	2.9	3.7	3.5	3.7	3.7	3.7	0.50	2.1	0.67	0.53	0.70	0.45
3	3.0	3.7	3.4	3.7	3.7	3.0	0.66	2.1	0.64	0.51	0.68	0.45
4	3.2	3.6	3.3	3.7	3.7	0.48	0.63	2.1	0.62	0.50	0.67	0.45
5	3.4	3.5	3.1	3.7	3.7	0.46	0.67	2.1	0.61	0.47	0.70	0.46
6	3.4	3.4	3.1	3.7	3.7	0.63	0.67	2.0	0.58	0.47	0.67	0.44
7	3.4	3.3	3.1	3.7	3.7	0.46	0.67	2.0	0.56	0.46	0.64	0.43
8	3.4	3.2	3.1	3.7	3.7	0.47	0.98	1.9	0.55	0.45	0.61	0.42
9	3.4	3.2	3.1	3.7	3.7	0.49	0.98	1.9	0.56	0.63	0.61	0.42
10	3.4	3.2	3.1	3.7	3.7	0.50	0.92	1.8	0.53	0.70	0.60	0.40
11	3.5	3.1	3.2	3.7	3.7	0.50	0.84	1.7	0.52	0.54	0.61	0.40
12	3.5	3.1	3.2	3.7	3.7	e2.0	0.85	1.6	0.50	0.48	0.59	0.40
13	3.5	3.3	3.3	3.7	3.7	5.7	0.86	1.6	0.48	0.44	0.58	0.40
14	3.5	3.5	3.6	3.7	3.7	5.8	0.85	1.6	0.47	0.45	0.53	0.40
15	3.4	3.6	3.5	3.7	3.7	5.8	1.1	1.6	0.46	0.45	0.53	0.40
16	3.5	3.4	3.4	3.7	3.7	5.6	2.2	1.4	0.49	0.55	0.50	0.40
17	3.5	3.3	3.3	3.7	3.7	5.6	0.87	1.3	0.52	0.70	0.49	0.38
18	3.5	3.2	3.2	3.7	3.7	5.6	0.79	1.2	0.55	0.64	0.60	0.38
19	3.4	3.2	3.6	3.7	3.7	5.6	0.70	1.1	0.55	0.60	0.66	0.40
20	3.3	3.5	3.6	3.7	3.7	5.6	0.73	1.1	0.52	0.70	0.61	0.39
21	3.2	3.7	3.5	3.7	3.7	3.4	0.73	1.00	0.65	0.64	0.62	0.43
22	3.2	3.8	3.5	3.7	3.7	1.5	0.80	0.95	0.59	0.58	0.71	0.47
23	3.2	3.7	3.8	3.7	3.7	1.5	0.88	0.91	0.53	0.77	0.68	0.45
24	3.2	3.7	3.8	3.7	3.7	1.5	1.0	0.88	0.48	1.1	0.61	0.40
25	3.2	3.7	3.7	3.7	3.7	1.4	1.3	0.84	0.53	1.1	0.58	0.40
26 27 28 29 30 31	3.2 3.1 3.2 3.6 3.5 3.5	3.7 3.6 3.5 3.6 3.5	3.7 3.6 3.5 3.5 3.6 3.7	3.7 3.7 3.7 3.7 3.7 3.7	3.7 3.7 3.7 3.7	0.66 0.63 0.58 0.55 0.52 0.50	1.6 2.0 2.2 2.2 2.1	0.83 0.78 0.77 0.73 0.71 0.70	0.55 0.65 0.69 0.63 0.62	0.93 0.88 0.86 0.81 0.80 0.77	0.53 0.61 0.58 0.53 0.50 0.50	0.40 0.40 0.41 0.43 0.40
TOTAL	103.2	104.2	106.1	114.7	107.3	74.43	31.77	43.30	16.97	20.09	18.74	12.54
MEAN	3.33	3.47	3.42	3.70	3.70	2.40	1.06	1.40	0.57	0.65	0.60	0.42
MAX	3.6	3.8	3.8	3.7	3.7	5.8	2.2	2.1	0.69	1.1	0.71	0.48
MIN	2.9	3.1	3.1	3.7	3.7	0.46	0.49	0.70	0.46	0.44	0.49	0.38
AC-FT	205	207	210	228	213	148	63	86	34	40	37	25
					EARS 1970			, ,	4.20	2.27	2.61	1.71
MEAN	1.88	1.37	1.01	0.82	0.59	0.60	2.04	6.61	4.29	2.27	2.61	1.71
MAX	11.7	7.74	8.62	8.78	4.21	2.46	12.4	41.2	30.6	23.3	23.8	20.3
(WY)	(1972)	(1971)	(1971)	(1971)	(1999)	(1971)	(1971)	(1999)	(1997)	(1970)	(1970)	(1970)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.20	0.03	0.02	0.00	0.00
(WY)	(1993)	(1993)	(1994)	(1993)	(1976)	(1991)	(1989)	(1976)	(1976)	(1993)	(1993)	(1993)
SUMMAR	XY STATIST	ICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 1	970 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE		И	FOR 2003 CALENDAR YEAR  787.27 2.16  4.3 Sep 6 0.20 Jan 7 0.20 Jan 5				0.38 Sep 0.39 Sep 5.8 Ma 1.51 Ma	r 14 p 17 p 14 r 13 r 13	b	1.94 13.4 0.10 116 Apr 30, 1 a0.00 Jan 29, 1 0.00 Jan 29, 1 b132 Apr 30, 1 c3.41 Apr 30, 1		
MALIMOM FEAR STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS					0 3.5 2.9 0.27		1,490 3.7 1.6 0.47			1,400 4.0 0.55 0.07		

<sup>e Estimated.
a No flow many days during 1976, 1991-92.
b From rating curve extended above 105 ft<sup>3</sup>/s.
c From floodmarks, maximum gage height, 3.88 ft, Dec. 22, 1983, backwater from ice.</sup> 

#### 07103970 MONUMENT CREEK ABOVE WOODMEN ROAD AT COLORADO SPRINGS, CO

 $LOCATION.--Lat~38°56'02", long~104°49'00", in~SW^{1}_{4}NE^{1}_{2}~sec.7, T.13~S., R.66~W., El~Paso~County, \\ Hydrologic~Unit~11020003, on~right~bank~0.1~mi~upstream~from~Woodmen~Road~at~Colorado~Springs, 0.2~mi~west~of~Interstate~25, and 0.5~mi~upstream~from~Cottonwood~Creek.$ 

DRAINAGE AREA.--181 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1996 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=07103970

GAGE.--Water-stage recorder with satellite telemetry and concrete control. Elevation of gage is 6,270 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, transmountain diversions, diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants.

IOF IFFI	gation and m	iunicipal use,	ground-water				a areas, and 11 ET PER SECO		vage-treatme	nt prants.		
					R YEAR OC		TO SEPTEM					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	10 9.8 11 13 10	10 9.6 10 9.9 10	13 12 11 e11 e11	e12 12 e11 e10 e9.0	e11 e11 e11 e10 e10	14 14 14 17 24	14 13 28 17 14	28 26 23 21 20	7.8 7.3 6.5 6.6 7.3	27 16 12 8.8 8.7	9.4 9.8 11 145 66	9.1 8.9 10 19
6 7 8 9 10	9.8 9.9 9.5 9.5	10 11 11 11 11	12 12 12 e12 e11	e8.5 e9.0 e11 e13 e13	e9.5 e9.5 e10 e9.5 e10	17 12 12 12 12	12 11 44 18 26	19 18 17 16 14	6.3 6.0 5.9 6.2 7.6	8.4 7.6 7.2 46 136	19 13 8.6 9.6 9.6	8.4 8.2 7.4 7.3 7.9
11 12 13 14 15	10 9.8 9.5 10	10 11 12 12 12	e10 e10 e10 e11 e11	e13 e13 e13 e12 e11	e9.5 e9.0 e8.0 e9.0 e10	13 11 13 14 13	25 23 20 19 17	12 10 20 21 18	6.9 4.8 5.4 6.7 7.5	19 12 9.9 7.9 8.0	8.6 7.7 8.7 8.3 7.7	7.4 6.3 6.5 6.6 6.1
16 17 18 19 20	10 11 11 11 10	13 13 12 12 12	e10 e10 e11 e12 e13	11 10 e11 e12 13	e10 e12 e13 e14 e15	13 14 14 17 14	17 17 17 15 16	16 21 16 13 12	6.7 27 21 14 13	47 31 12 21 11	8.2 8.0 19 25 14	6.4 6.2 6.4 6.7 6.3
21 22 23 24 25	10 11 10 9.3 9.3	12 e12 e12 e12 e12	13 13 e12 e12 e12	e12 e12 e13 e12 e11	15 14 13 13	14 12 13 14 14	16 28 33 27 47	11 10 9.5 9.8 8.9	30 15 10 9.9 17	8.0 10 52 50 32	12 47 38 16 10	16 17 7.7 6.4 6.4
26 27 28 29 30 31	9.5 11 10 10 9.5 9.7	e12 e12 e12 e13 13	e11 e10 e10 e10 e10	e10 e9.0 e9.5 e10 e11 e12	14 14 16 15	13 12 12 14 14 14	31 28 30 30 32	9.7 8.6 8.7 9.0 8.7 8.2	15 81 46 17 72	20 19 21 16 14 11	8.2 34 19 12 10	6.0 7.1 9.9 7.9 8.2
TOTAL MEAN MAX MIN AC-FT	314.1 10.1 13 9.3 623	344.5 11.5 13 9.6 683	350 11.3 13 10 694	349.0 11.3 13 8.5 692	338.0 11.7 16 8.0 670	433 14.0 24 11 859	685 22.8 47 11 1,360	463.1 14.9 28 8.2 919	493.4 16.4 81 4.8 979	709.5 22.9 136 7.2 1,410	632.4 20.4 145 7.7 1,250	253.7 8.46 19 6.0 503
							ATER YEAI	, ,	50.5	24.0	20.0	15.1
MEAN MAX (WY) MIN (WY)	17.0 30.3 (2000) 8.81 (2003)	17.0 30.1 (1998) 8.05 (2003)	14.8 22.1 (2001) 7.05 (2003)	15.1 23.2 (2000) 7.20 (2003)	15.2 22.1 (2000) 7.69 (2003)	19.1 35.5 (1998) 12.3 (1997)	49.6 124 (1999) 12.5 (2002)	87.8 383 (1999) 13.0 (2002)	50.5 152 (1999) 8.09 (2002)	24.8 66.0 (1999) 7.56 (2003)	30.8 100 (1999) 5.22 (2002)	15.1 29.3 (1999) 7.11 (2002)
SUMMAI	RY STATIST	TICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	)4 WATER Y	EAR	WATER	YEARS 1997	- 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS			M	FOR 2003 CALENDAR YEAR 5,343.8 14.6  157 Aug 31 3.5 Aug 26 4.6 Aug 20  10,600 27 11			14 a3,60 t 10,64	4.8 Jui 6.1 Jui 00 Aug 09.70 Aug	g 4 n 12 n 7 g 4	2,0 a3,6 21,6	3.5 Aug 4.4 Aug 500 Aug b9.70 Aug	1999 2002 r 30, 1999 g 26, 2003 g 9, 2002 g 4, 2004 g 4, 2004

e Estimated.

From rating curve extended above 636 ft<sup>3</sup>/s.
 From floodmark, maximum gage height, 10.98 ft, Apr 30, 1999, from floodmark.

## 07103980 COTTONWOOD CREEK AT WOODMEN ROAD NEAR COLORADO SPRINGS, CO

LOCATION.--Lat 38°56′22", long 104°44′26", in NE $^1$ /<sub>4</sub>Ne $^1$ /<sub>4</sub> sec.11, T.13 S., R.66 W., El Paso County, Hydrologic Unit 11020003, on left bank, 250 ft downstream from Woodmen Road, 4.0 mi east of Interstate 25, 5.0 mi upstream from mouth, and 8.2 mi northeast of courthouse in Colorado Springs.

DRAINAGE AREA.--10.3 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1992 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=07103980

REVISED RECORDS.--WDR CO-93-1: Drainage area. WDR CO-96-1: 1995 (M)

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,680 ft above NGVD of 1929, from topographic map. Prior to Apr. 13, 1999, at site 150 ft upstream at datum 10 ft higher.

REMARKS.--Records fair except for estimated daily discharges and those above 10 ft<sup>3</sup>/s, which are poor. Natural flow of stream affected by erosion-control and livestockwatering reservoirs and ground-water withdrawals.

					R YEAR OC		ET PER SEC 3 TO SEPTEN VALUES						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	0.68 0.63 0.70 1.1 1.1	0.60 0.45 0.57 0.43 0.43	0.83 0.69 0.74 0.91 e0.85	e0.50 e0.50 e0.45 e0.40 e0.40	e0.40 e0.40 e0.40 e0.35 e0.35	0.61 0.66 0.78 1.2 3.0	0.52 0.76 4.5 0.60 0.34	1.4 1.2 0.93 0.79 0.77	0.63 0.64 0.66 0.59 0.66	1.00 0.73 0.59 0.58 0.59	0.82 0.95 1.3 26 e4.0	1.1 1.1 1.0 7.6 e1.6	
6 7 8 9 10	0.99 0.86 0.86 0.71 0.64	0.44 0.41 0.40 0.40 0.52	e0.80 e0.80 e0.80 0.81 0.82	e0.40 e0.45 e0.45 e0.50 e0.50	e0.30 e0.30 e0.35 e0.35 e0.35	1.3 0.87 0.79 0.73 1.2	0.38 0.55 10 e0.50 1.1	0.74 0.91 0.85 0.90 0.96	0.55 0.53 0.52 0.54 0.67	0.58 0.59 0.57 11 8.9	e2.0 e1.2 e2.0 e1.0 2.0	e1.0 e0.95 e0.90 e0.88 e0.86	
11 12 13 14 15	0.40 0.39 0.49 0.50 0.49	0.59 0.54 0.54 0.53 0.49	e0.80 e0.75 e0.75 e0.80 e0.75	e0.50 e0.50 e0.55 e0.55 e0.55	e0.30 e0.30 e0.30 e0.35 e0.35	0.74 0.50 0.50 0.46 0.47	0.68 1.4 0.56 0.46 0.33	1.0 1.1 3.9 1.5 1.1	0.77 0.83 0.76 0.61 0.70	0.83 0.68 0.52 0.55 0.75	1.5 1.3 1.6 1.5 1.5	e0.86 e0.84 e0.84 e0.82 0.82	
16 17 18 19 20	0.34 0.38 0.46 0.57 0.60	0.72 0.71 0.68 0.82 0.75	e0.70 e0.80 e0.75 e0.80 e0.80	e0.60 e0.55 e0.50 e0.50 e0.50	e0.35 e0.40 0.41 1.1 1.3	0.55 0.60 0.55 0.54 0.49	0.38 0.63 0.40 0.36 0.44	1.2 5.3 1.0 0.93 1.2	1.00 7.0 1.4 1.3 3.4	15 1.4 0.95 1.3 1.4	1.9 1.9 5.2 4.9 2.3	0.79 0.78 0.77 0.94 0.90	
21 22 23 24 25	0.55 0.54 0.64 0.65 0.67	0.72 e0.70 e0.65 e0.60	e0.85 0.85 e0.80 e0.80 0.81	e0.45 e0.45 e0.45 e0.35 e0.30	0.90 0.73 0.60 0.65 0.65	0.55 0.49 0.47 0.42 0.38	0.57 4.3 4.7 1.7 7.3	1.2 1.1 0.96 0.82 0.75	6.5 0.70 0.63 0.61 1.3	0.61 1.8 16 7.3 4.8	2.2 7.5 2.0 1.9 1.9	2.4 2.1 1.1 0.97 0.79	
26 27 28 29 30 31	0.61 0.54 0.55 0.66 0.61 0.68	e0.65 e0.60 e0.65 e0.80	0.70 e0.65 e0.60 e0.50 e0.50 e0.45	e0.35 e0.35 e0.45 e0.50 e0.55 e0.50	0.59 0.68 0.62 0.51	0.46 0.52 0.55 0.47 0.44 0.47	0.59 0.74 0.75 0.83 1.3	0.71 0.76 0.64 0.85 0.67 0.71	3.0 27 1.3 0.77 6.5	0.78 1.1 1.3 2.3 1.2 1.0	1.8 5.2 0.98 0.83 0.94 1.3	0.96 1.7 1.2 0.84 0.98	
TOTAL MEAN MAX MIN AC-FT	19.59 0.63 1.1 0.34 39	17.99 0.60 1.0 0.40 36	23.26 0.75 0.91 0.45 46	14.55 0.47 0.60 0.30 29	14.64 0.50 1.3 0.30 29	21.76 0.70 3.0 0.38 43	47.67 1.59 10 0.33 95	36.85 1.19 5.3 0.64 73	72.07 2.40 27 0.52 143	86.70 2.80 16 0.52 172	91.42 2.95 26 0.82 181	38.39 1.28 7.6 0.77 76	
STATIST	ICS OF MO	NTHLY MEA	AN DATA F	OR WATER	YEARS 1992	- 2004, BY V	VATER YEA	R (WY)					
MEAN MAX (WY) MIN (WY)	1.15 2.59 (1995) 0.35 (1993)	1.03 3.20 (1998) 0.47 (1993)	0.76 1.71 (2000) 0.31 (2003)	0.65 1.36 (1998) 0.33 (1994)	0.78 1.26 (1998) 0.42 (1994)	1.20 3.34 (1998) 0.49 (1995)	1.81 6.42 (1999) 0.50 (1996)	2.93 13.6 (1999) 0.64 (1993)	2.91 8.85 (1995) 0.49 (1994)	2.26 5.07 (1999) 0.24 (1994)	2.43 6.36 (1999) 0.40 (2002)	1.33 2.82 (1995) 0.47 (1992)	
SUMMAF	RY STATIST	TICS		FOR 2003 (	CALENDAR	YEAR	FOR 20	04 WATER	YEAR	WATER	YEARS 1	992 - 2004	
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT)			M	1 e e	7.01 1.06 9 Aug 0.25 Jan 0.29 Jan 8 1.6	19	b3	e0.30 Ja e0.32 Fe 79 J	un 27 un 25 zb 6 ul 23 ul 23	c1,0	1.64 3.63 0.65 100 a0.15 0.17 090 d5.57 190 2.9	1999 1993 Apr 30, 1999 Jan 23, 1995 Jan 21, 1995 Jul 19, 1993 Jul 19, 1993	
10 PERCENT EXCEEDS 50 PERCENT EXCEEDS					0.65			0.72		0.80 0.36			

90 PERCENT EXCEEDS

0.40

0.36

0.39

Also occurred Jan 23, Feb 3 (estimated), 1996.
 From rating curve extended above 19 ft<sup>3</sup>/s on basis of velocity-area study.
 From rating curve extended above 1.1 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow at gage height 4.45 ft, site and datum then in use.

d From floodmarks, site and datum then in use. Maximum gage height, 7.84 ft, May 25, 1999.

4.6 2.5 147

#### ARKANSAS RIVER BASIN

#### 07103990 COTTONWOOD CREEK AT MOUTH AT PIKEVIEW, CO

LOCATION.--Lat 38°55'41", long 104°48'35", in SW<sup>1</sup>/<sub>4</sub>Sw<sup>1</sup>/<sub>4</sub> sec.8, T.13 S., R.67 W., El Paso County, Hydrologic Unit 11020003, on left bank 20 ft upstream from Vincent Drive bridge, 0.3 mi south of Woodmen Road, 0.3 mi upstream from mouth, and 1.2 mi northeast of Pikeview.

DRAINAGE AREA.--18.7 mi<sup>2</sup>.

ground-water withdrawals.

PERIOD OF RECORD.--December 1985 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site no=07103990

GAGE.--Water-stage recorder with satellite telemetry, crest-stage gage, and concrete control. Elevation of gage is 6,265 ft above NGVD of 1929, from topographic map. REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by erosion-control and livestock-watering reservoirs and

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES DAY OCT NOV DEC JAN **FEB** MAR APR MAY JUN JUL AUG SEP 3.7 3.3 e2.0 e2.0 1.9 2.5 4.4 3.1 6.2 10 e6.0 2.6 2.4 4.2 4.7 42 4.4 3.1 e2.0 e2.0 4.8 29 4.4 9.6 e5.0 3 4.0 3.0 e3.0e2.0 4.7 4.7 3.7 22 4.1 8.4 7.1 5.7 e150 4.4 e2.0 e2.0 4.5 23 6.0 4.8 5.4 5 4.3 5.4 3.7 e2.0 e2.0 12 5.0 4.1 2.9 5.3 e30 4.2 5.3 5.0 4.5 4.4 4.0 3.9 3.7 3.9 3.8 3.8 e2.0 e3.0 e2.0 e2.0 e5.8 2.7 3.1 2.3 2.9 2.5 6 7 4.4 e10 4.4 6.4 2.9 8 4.2 5.0 4.3 e3.0 e3.0 41 2.6 2.8 5.3 6.9 3.7 2.4 37 4.0 e2.0 e3.0 5.6 3.6 6.7 10 4.4 5.4 3.0 e2.0 e3.0 6.1 14 3.4 3.6 23 8.8 5.9 11 3.8 5.2 e3.0 e2.0 e3.0 3.0 4.5 3.1 4.3 6.8 6.5 5.8 8.4 4.1 3.0 4.1 e3.0 e2.0 e2.0 2.8 2.3 12 6.0 e2.0 e2.0 2.8 13 e2.0 2.8 2.9 2.9 5.2 14 3 1 3 7 e3.0 e2.0e2.0 2.4 59 5 1 2.8 2.6 32 e2.040 44 77 15 33 3.3 e2.0 e3.0 5.3 3.3 4.2 e2.0 e2.0 2.7 2.7 e80 7.0 3.2 16 e3.0 3.6 3.4 3.4 4.8 e2.0 e3.0 e2.0 2.6 2.5 19 28 e15 7.0 3.5 2.8 2.9 2.2 5 9 18 27 39 e2.0 e3.0 e3.0 13 e10 19 4.6 2.0 3.1 3.9 13 19 e2.0e2.0e3.04.2 e40 e22 5.8 2.9 e3.0 e2.0 2.9 5.4 3.4 12 5.5 20 3.7 16 e3.0 12 21 22 3.2 4.3 e2.0 e2.0 e3.0 2.9 6.6 3.7 26 5.5 9.8 15 34 3.7 32 17 e2.0e2.03 1 20 36 46 2.1 23 2.7 3.7 e2.0 3.9 3.5 80 e2.0 18 6.7 5.5 3.6 4.4 5.6 24 37 e2.0 e2.0 4.4 3.9 7.0 4 1 46 8.8 6.4 25 2.2 e2.0 23 12 3.6 e2.0 3.6 3.8 4.6 34 9.8 6.8 9.7 26 2.3 e2.0 3.8 3.9 19 7.7 6.2 3.1 e2.0 3.5 4.3 2.3 27 3.5 e2.0 112 7.9 9.9 e2.0 3.1 3.8 3.0 4.1 25 28 3.7 3.5 e2.0 e2.0 3.6 2.6 3.8 e12 9.3 e8.0 8.5 e2.0 29 4.0 2.9 e2.0 2.3 3.0 3.8 e7.0 30 4.6 2.6 e2.0 e2.02.5 7.5 32 31 11 e7.0 9.5 2.5 e2.03 1 31 43 e2.0 ------10 e6.0 ---TOTAL 114.5 120.7 84.2 67.0 77.9 109.7 244.3 142.2 345.8 527.1 197.4 466.1 MEAN 3.69 4.02 2.72 2.16 2.69 3.54 8.14 4.59 11.5 17.0 15.0 6.58 5.4 2.2 48 3.0 4.4 19 112 2.4 MAX 6.0 12 41 80 150 23 1.9 2.0 2.0 2.3 2.2 2.8 MIN 2.0 2.0 4.1 5.1 AC-FT 227 239 167 133 155 218 485 282 686 1,050 925 392 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2004, BY WATER YEAR (WY) MEAN 5.63 5.08 4.39 4.24 4.46 5.47 6.90 9.00 9.74 10.0 9.62 6.44 11.1 9.59 9.18 7.90 7.60 7.56 33.3 40.7 26.4 27.7 13.9 MAX 26.2 (WY) (1995)(1998)(1998)(2000)(2000)(1992)(1999)(1999)(1995)(2001)(1999)(1999)1 93 MIN 2 90 1 92 2 16 2 28 2.57 3 31 271 3.05 3 93 2 67 (1987) (1990) (1999)(1989)(1986)(1990)(1992)(2004)(1986)(WY) (1987)(1992)(2002)SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1986 - 2004 ANNUAL TOTAL 1,943.9 2,496.9 ANNUAL MEAN 5.33 6.82 6.90 HIGHEST ANNUAL MEAN 1999 15.7 LOWEST ANNUAL MEAN 4.01 1989 HIGHEST DAILY MEAN LOWEST DAILY MEAN e500 Apr 30, 1999 53 Jun 17 e150 Aug 4 Mar 1 e2.0 1.9 a0.01 Jul 10, 1989 May 14 Dec 21 ANNUAL SEVEN-DAY MINIMUM e2.0 e2.0 Dec 21 0.12 Jul 5, 1989 MAXIMUM PEAK FLOW b4,030 b4,030 2004 Aug Aug MAXIMUM PEAK STAGE c10.08 4 c10.08 4, 2004 Aug Aug 3,860 4,950 5,000 ANNUAL RUNOFF (AC-FT) 8.3 10 PERCENT EXCEEDS 12 10

2.0

50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

3.9

e Estimated.

a Also occurred Jul 11, 1989.

b From critical-depth measurement of peak flow.

c From floodmarks.

#### 07104000 MONUMENT CREEK AT PIKEVIEW, CO

 $LOCATION.--Lat~38^\circ55'04", long~104^\circ49'05", in~NW^{1}_{4}SE^{1}_{4}~sec. 18, T.13~S., R.66~W., El~Paso~County, \\ Hydrologic~Unit~11020003, on~right~bank~0.1~mi~west~of~Interstate~25~at~Pikeview, 0.9~mi~downstream~from~Cottonwood~Creek, and~1.3~mi~downstream~from~Woodmen~Road.$ 

DRAINAGE AREA.--204 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1938 to September 1949, January 1976 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07104000

REVISED RECORDS .-- WDR CO-90-1: 1989 (M).

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 6,203.26 ft above NGVD of 1929. Oct. 1938 to Sept. 1949, nonrecording gage at present site at datum 2.10 ft higher. Jan. 1976 to June 6, 1994, at present site at datum 2.00 ft higher. Since Aug. 14, 2002, supplementary water-stage recorder on left bank 15 ft downstream at same datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, transmountain diversions, diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants.

EXTREMES OUTSIDE PERIOD OF RECORD .-- Flood of May 30, 1935, reached a stage of about 14 ft, former datum, discharge unknown.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	14 14 15 16 14	e16 e16 e17 18 17	16 16 16 16 15	e13 e13 e14 e11 e9.0	e12 e11 e10 e11 e11	e16 e16 e16 22 55	17 18 60 e20 16	e35 32 28 26 e24	10 11 10 11 14	37 20 e16 e12 e12	20 19 20 310 81	18 18 17 47 24
6 7 8 9 10	11 13 12 11 13	e17 16 18 18 19	15 14 14 e12 e10	e9.0 e12 e14 e14 e15	e12 e13 e14 e14 e14	e20 e15 e15 e15 e22	e15 e14 104 e23 e32	e23 e22 e21 e19 e18	15 11 9.7 9.2 12	11 11 e11 106 183	39 29 23 22 23	20 16 15 19 18
11 12 13 14 15	14 13 14 14 14	16 14 e14 15 e14	e12 e13 e13 e16 e15	e14 e14 e14 e13 e14	e13 e12 e10 e12 e14	18 17 14 17 19	e30 e24 23 e22 e21	e17 e15 e35 33 22	e10 e8.0 e9.0 e10 14	28 17 e15 e14 e16	22 17 16 15 14	16 15 13 13 12
16 17 18 19 20	14 14 15 15 14	e15 15 15 15 e16	e14 e15 e15 e15 e16	e13 e13 e13 e13 e14	e14 e16 e17 e18 e19	19 19 18 21 19	e20 e20 e19 e20 e21	19 49 44 24 20	14 54 31 e28 e26	205 50 28 77 26	14 14 38 63 40	11 11 11 12 11
21 22 23 24 25	14 14 13 13 12	e15 e15 e14 e14 e14	e15 e13 e14 e14 e14	e14 e12 e12 e12 e12	e18 e18 e16 e16 e15	19 17 17 17 17	e22 e50 59 44 81	17 15 13 13	e62 23 13 12 22	15 15 195 114 78	36 72 61 26 21	29 32 17 16 13
26 27 28 29 30 31	13 14 14 15 15 e16	e15 e15 e15 e16 17	e15 e13 e13 e13 e13	e10 e11 e12 e13 e14 e14	e15 e15 e16 e16	18 16 16 17 17	39 31 e33 e33 e40	13 11 12 13 12 11	38 243 e60 e25 122	37 29 28 27 24 21	15 63 40 28 23 20	14 17 20 16 15
TOTAL MEAN MAX MIN AC-FT	427 13.8 16 11 847	471 15.7 19 14 934	438 14.1 16 10 869	395.0 12.7 15 9.0 783	412 14.2 19 10 817	581 18.7 55 14 1,150	971 32.4 104 14 1,930	668 21.5 49 11 1,320	936.9 31.2 243 8.0 1,860	1,478 47.7 205 11 2,930	1,244 40.1 310 14 2,470	526 17.5 47 11 1,040
MEAN MAX (WY) MIN (WY)	19.4 82.8 (1985) 1.90 (1940)	18.5 55.3 (1985) 4.27 (1979)	15.6 32.2 (2000) 3.95 (1979)	14.5 31.9 (2000) 4.40 (1979)	15.5 35.2 (2000) 4.06 (1940)	- 2004, BY W 22.1 52.4 (1998) 6.67 (1944)	49.7 259 (1942) 10.2 (1978)	91.2 399 (1999) 12.7 (1946)	47.6 190 (1999) 5.20 (1976)	28.6 97.6 (1999) 2.01 (1939)	31.4 149 (1999) 1.11 (1940)	17.0 46.7 (1985) 1.74 (1939)
SUMMAI	RY STATIST	TICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 193	9 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			М	237	7 Aug 5.8 Aug 7.5 Aug	17	31 a5,22 b1 16,95	23.4  10 Aug e8.0 Jur 9.7 Jur 30 Aug 11.24 Aug	112 1 8 g 4	2,9 a5,	0.00 Jî 0.21 Ju 230 Au 511.24 Au	1999 1978 or 30, 1999 11 24, 1939 11 20, 1939 12 4, 2004 14, 2004

e Estimated.

From rating curve extended above 4,890 ft<sup>3</sup>/s. a From rating curveb From floodmarks.

#### 07104905 MONUMENT CREEK AT BIJOU STREET AT COLORADO SPRINGS, CO

 $LOCATION.--Lat~38°50'14", long~104°49'44", in~NW^{1}_{\sqrt{4}}NW^{1}_{\sqrt{4}}~sec.18, T.14~S., R.66~W., El~Paso~County, Hydrologic~Unit~11020003, on left bank 250~ft downstream from bridge on Bijou Street at Colorado Springs, 250~ft east of Interstate 25, and 0.7 mi upstream from mouth.$ 

DRAINAGE AREA.--235 mi<sup>2</sup>.

 $PERIOD\ OF\ RECORD. -- April\ 2003\ to\ current\ year.\ For\ a\ complete\ listing\ of\ historical\ data\ available\ for\ this\ site,\ see\ http://waterdata.usgs.gov/co/nwis/inventory/\\ ?site\_no=07104905$ 

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gages. Elevation of gage is 5,980 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges and those above 300 ft<sup>3</sup>/s, which are poor. Natural flow of stream affected by storage reservoirs, transmountain diversions, diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	17 16 16 18 17	20 20 20 20 20 19	15 17 17 17 17	e13 e15 14 e11 e9.0	12 e11 e10 e12 e11	e17 e18 e18 e18 e19	18 20 87 17 17	41 38 33 33 25	10 12 8.9 9.1 12	36 34 35 30 27	34 25 20 277 200	17 18 26 79 28
6 7 8 9 10	18 18 16 13 17	19 17 20 22 22	15 16 14 12 12	e9.0 e12 e15 e15 e16	e13 e13 e14 e15 e14	e18 17 17 18 28	22 26 144 20 45	23 27 25 21 21	8.0 6.2 5.6 5.3 5.3	36 30 18 84 159	46 36 22 36 27	28 20 13 18 17
11 12 13 14 15	16 16 16 16 16	22 20 19 20 19	e14 e15 e15 e20 e18	e15 e14 e14 e14 e15	e13 e12 e10 e16 e17	19 16 16 19 21	29 26 17 18 18	22 23 36 18 15	5.1 5.0 5.2 5.7	32 22 11 20 26	37 25 22 31 20	14 9.2 12 12 9.1
16 17 18 19 20	16 18 21 21 20	19 18 18 20 21	e16 e20 e20 e19 e19	14 15 13 e13 e14	e15 e16 18 e18 e19	21 21 19 19 17	15 14 14 13 11	13 49 31 18 13	5.6 78 33 18 17	448 134 21 77 50	30 22 68 134 52	9.0 12 14 14 13
21 22 23 24 25	18 18 17 17	21 19 e14 e16 e20	15 13 e13 e14 e14	15 e9.0 e12 e12 e12	e18 e18 e16 e16 e15	16 14 13 11 15	11 68 77 42 98	10 11 13 14 14	97 9.7 11 15 33	22 18 303 150 105	77 89 65 28 22	44 57 21 14 14
26 27 28 29 30 31	17 19 19 19 19	e19 e17 e16 e18 14	e13 e11 e12 e16 e14 e11	e9.0 e10 e14 e15 e15	e15 e15 e16 e16	17 14 16 17 17	42 40 46 49 54	14 12 12 11 9.1 9.0	47 281 88 38 104	45 40 51 44 28 32	26 110 50 30 24 20	15 18 34 18 19
TOTAL MEAN MAX MIN AC-FT	542 17.5 21 13 1,080	569 19.0 22 14 1,130	472 15.2 20 11 936	407.0 13.1 16 9.0 807	424 14.6 19 10 841	543 17.5 28 11 1,080	1,118 37.3 144 11 2,220	654.1 21.1 49 9.0 1,300	988.7 33.0 281 5.0 1,960	2,168 69.9 448 11 4,300	1,705 55.0 277 20 3,380	636.3 21.2 79 9.0 1,260
MEAN MAX (WY) MIN (WY)	17.5 17.5 (2004) 17.5 (2004)	19.0 19.0 (2004) 19.0 (2004)	15.2 15.2 (2004) 15.2 (2004)	13.1 13.1 (2004) 13.1 (2004)	14.6 14.6 (2004) 14.6 (2004)	- 2004, BY W 17.5 17.5 (2004) 17.5 (2004)	41.8 46.4 (2003) 37.3 (2004)	29.3 37.4 (2003) 21.1 (2004)	41.3 49.6 (2003) 33.0 (2004)	41.5 69.9 (2004) 13.1 (2003)	46.4 55.0 (2004) 37.7 (2003)	21.9 22.6 (2003) 21.2 (2004)
SUMMAR	RY STATIST	ICS					FOR 200	4 WATER Y	EAR	WATER	YEARS 200	3 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS							44,75 20,29	18 Jul 5.0 Jun 5.3 Jun 50 Aug 9.07 Aug	8	a4, 20,2	4.0 Ju 5.3 Ju 750 Au 9.07 Au	2004 2004 2004 1g 31, 2003 ul 21, 2003 in 8, 2004 g 4, 2004 g 4, 2004

e Estimated.

a From rating curve extended above 309 ft<sup>3</sup>/s.

#### 07105000 BEAR CREEK NEAR COLORADO SPRINGS, CO

LOCATION.--Lat 38°49'21", long 104°53'17", in  $NE^{1}_{4}NE^{1}_{4}$  sec. 21, T.14 S., R.67 W., El Paso County, Hydrologic Unit 11020003, on left bank 30 ft east of 26th Street, 0.6 mi southwest of Bear Creek Nature Center, 3.4 mi upstream from mouth, and 3.5 mi west of courthouse in Colorado Springs.

DRAINAGE AREA.--6.89 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1992 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=07105000

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,520 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except estimated daily discharges, which are poor. Natural flow of stream affected by diversion for municipal use.

					ER YEAR OC		ET PER SECC 3 TO SEPTEM /ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.54 0.54 0.58 0.58 0.63	0.77 0.78 0.82 0.82 0.83	0.58 0.58 0.58 0.58 0.58	0.56 0.57 0.57 0.58 0.57	0.53 0.52 0.52 0.52 0.52	0.59 0.58 0.58 0.58 0.54	0.93 0.97 1.2 1.2 1.3	3.5 3.4 3.6 3.7 4.0	1.5 1.4 1.3 1.3	3.0 2.4 2.5 2.5 2.6	4.2 4.1 3.7 4.1 4.8	3.7 3.5 3.3 3.2 3.1
6 7 8 9 10	0.64 0.64 0.60 0.59 0.59	0.82 0.83 0.78 0.79 0.79	0.58 0.58 0.59 0.56 0.49	0.51 e0.53 0.56 0.55 0.57	0.52 0.54 0.54 0.55 0.56	0.63 0.66 0.75 0.83 0.83	1.3 1.3 1.7 1.7	4.4 4.4 4.2 4.1 4.1	1.4 1.3 1.2 1.2	2.7 2.5 2.2 2.0 2.0	5.6 5.4 5.0 4.6 4.1	2.9 2.8 2.7 2.7 2.7
11 12 13 14 15	0.54 0.58 0.59 0.54 0.53	0.76 0.74 0.75 0.76 0.72	0.60 0.57 0.58 0.58 0.53	0.58 0.59 0.58 0.58 0.55	0.56 e0.56 0.56 0.54 0.54	0.79 0.80 0.82 0.81 0.85	1.6 1.8 1.8 1.8	3.8 3.5 3.6 3.4 3.2	1.2 1.2 1.3 1.2 1.2	1.9 1.7 1.7 1.7 1.8	4.0 3.9 3.7 3.5 3.4	2.6 2.4 2.4 2.4 2.4
16 17 18 19 20	0.56 0.55 0.56 0.59 0.59	0.70 0.69 0.65 0.69 0.70	0.55 0.57 0.55 0.55 0.56	0.55 0.55 0.55 0.56 0.55	0.54 0.55 0.56 0.59 0.58	0.87 0.87 0.89 0.92 0.96	1.8 1.7 1.8 1.8	3.1 2.9 2.8 2.6 2.6	1.2 2.0 1.4 1.3 1.3	4.3 6.5 5.4 4.9 4.4	3.3 3.1 3.7 6.0 6.4	2.4 2.3 2.0 1.9 2.0
21 22 23 24 25	0.59 0.60 0.62 0.60 0.62	0.69 0.63 0.43 0.58 0.67	0.57 0.57 0.57 0.57 0.58	0.54 0.54 0.55 0.54 e0.53	0.57 0.57 0.58 0.58 0.58	0.96 0.99 1.1 1.1	1.7 1.7 1.4 2.0 2.5	2.4 2.4 2.3 2.2 2.1	1.7 1.9 1.6 1.4 1.6	3.9 3.6 4.9 5.9 6.7	7.1 6.6 6.0 5.5 5.1	2.3 2.4 2.2 2.2 2.2
26 27 28 29 30 31	0.64 0.63 0.62 0.63 0.67 0.69	0.64 0.63 0.64 0.63 0.58	0.58 0.57 0.52 0.54 0.62 0.58	0.53 0.53 0.53 0.51 0.52 0.53	0.60 0.61 0.61 0.59	1.0 0.99 0.94 0.96 0.96 0.94	2.6 3.2 4.1 4.2 3.9	2.1 2.0 2.0 1.9 1.9	1.8 2.5 3.1 2.4 2.7	6.7 6.2 5.9 5.5 5.0 4.6	4.6 4.8 4.6 4.3 4.4 4.0	2.2 2.3 2.4 2.2 2.0
TOTAL MEAN MAX MIN AC-FT	18.47 0.60 0.69 0.53 37	21.31 0.71 0.83 0.43 42	17.61 0.57 0.62 0.49 35	17.06 0.55 0.59 0.51 34	16.19 0.56 0.61 0.52 32	26.19 0.84 1.1 0.54 52	58.20 1.94 4.2 0.93 115	94.0 3.03 4.4 1.8 186	47.2 1.57 3.1 1.2 94	117.6 3.79 6.7 1.7 233	143.6 4.63 7.1 3.1 285	75.8 2.53 3.7 1.9 150
MEAN MAX (WY) MIN (WY)	1.68 3.16 (2000) 0.37 (1993)	1.47 2.41 (2000) 0.14 (1993)	1.29 2.12 (2000) 0.17 (1993)	1.18 1.87 (2000) 0.30 (1993)	1.16 1.80 (2000) 0.36 (1993)	1.35 2.15 (2000) 0.52 (1993)	2.50 6.13 (1999) 0.31 (1993)	6.68 22.0 (1999) 0.80 (2002)	4.63 17.0 (1997) 0.47 (1993)	2.70 7.55 (1995) 0.30 (1993)	2.86 6.77 (1999) 0.43 (2002)	1.94 4.39 (1997) 0.30 (1992)
SUMMAI	RY STATIST	TICS		FOR 2003	CALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 19	92 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS			M	FOR 2003 CALENDAR YEAR  327.39 0.90  2.2 Apr 17 0.43 Nov 23 0.48 Jan 1  649 1.7 0.67 0.54			FOR 2004 WATER YEAR  653.23 1.78  7.1 Aug 21 0.43 Nov 23 0.52 Jan 29 16 Jul 16 1.51 Jul 16 1,300 4.1 1.1			a	2.52 5.30 0.41 89 0.02 0.05 N	1999 1993 Apr 30, 1999 Sep 18, 1992 Sov 7, 1992 Apr 30, 1999 Apr 30, 1999

e Estimated.

a From rating curve extended above 122 ft<sup>3</sup>/s. b From floodmarks.

#### 07105490 CHEYENNE CREEK AT EVANS AVENUE AT COLORADO SPRINGS, CO

 $LOCATION.--Lat~38^\circ 47'26", Long~104^\circ 51'49", in~SW^{1}/_{4}NW^{1}/_{4}~sec. 35, T.14~S.,~R.67~W.,~El~Paso~County,~Hydrologic~Unit~11020003, on~right~bank~23~ft~upstream~from~Evans~Avenue~at~Colorado~Springs,~30~ft~downstream~from~the~confluence~of~North~and~South~Cheyenne~Creeks,~and~3.1~mi~upstream~from~the~mouth.$ 

DRAINAGE AREA.--21.7 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1992 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=07105490

REVISED RECORDS .-- WDR CO-93-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 6,280 ft above NGVD of 1929, from topographic map. Prior to June 13, 2000, at datum 1.00 ft higher.

REMARKS.--Records good except estimated daily discharges, which are poor. Natural flow of stream affected by several small reservoirs and diversions.

					ER YEAR OC		ET PER SECC 3 TO SEPTEM /ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.58 0.62 0.71 0.75 0.75	0.58 0.59 0.58 0.54 0.50	0.41 0.42 0.41 0.41 0.39	0.39 0.54 0.54 0.54 0.60	0.59 0.62 0.59 0.60 0.64	0.40 0.38 0.40 0.40 0.39	0.52 0.56 0.80 0.72 1.2	26 14 13 18 30	3.5 6.9 7.1 8.1 7.8	13 15 12 8.6 4.2	9.5 9.4 6.3 3.2 3.3	7.1 3.8 3.7 3.6 3.2
6 7 8 9 10	0.74 0.74 0.68 0.64 0.64	0.50 0.49 0.49 0.49 0.50	0.39 0.39 0.40 0.39 0.39	e0.60 0.57 0.60 0.61 0.64	0.66 0.66 0.64 0.64 0.66	0.42 0.41 0.48 0.74 0.48	0.90 0.50 3.0 4.3 3.8	36 35 34 35 33	7.5 4.9 1.4 1.6 1.6	3.5 4.9 6.7 5.5 5.6	3.6 2.6 3.5 6.0 6.1	3.1 4.7 5.2 5.0 4.8
11 12 13 14 15	0.72 0.64 0.58 0.90 0.56	0.67 0.40 0.38 0.41 0.45	0.39 0.38 0.38 0.39 0.38	0.64 0.63 0.59 0.60 0.59	0.64 e0.64 e0.64 0.64	0.46 0.67 1.00 0.92 0.90	3.5 4.6 3.8 5.1 5.5	32 31 22 18 20	1.4 1.4 1.2 1.1	3.4 1.2 0.97 0.90 0.88	6.3 4.2 2.8 2.8 2.7	3.7 1.6 1.5 1.4 2.6
16 17 18 19 20	0.54 0.54 0.54 0.54 0.84	0.45 0.49 0.47 0.47 0.48	0.38 0.38 0.38 0.38 0.38	0.59 0.59 0.57 0.57 0.55	0.67 0.69 0.70 0.70 0.68	0.47 0.39 0.38 0.39 0.39	8.4 11 8.7 4.5 2.7	18 19 16 12 11	1.1 1.2 0.89 0.92 0.92	16 19 30 14 7.5	2.6 3.3 4.9 13 16	4.0 3.9 3.3 1.7 1.6
21 22 23 24 25	0.50 0.50 0.51 0.52 0.53	0.47 0.45 0.48 0.51 0.42	0.38 0.38 0.38 0.38 0.38	0.56 0.54 0.56 0.59 0.60	0.65 0.64 0.64 0.66 0.58	0.39 0.40 0.39 0.39 0.39	4.8 9.4 9.1 15 17	11 13 18 15 15	2.7 4.4 3.6 3.5 3.8	6.6 4.0 3.4 4.9	26 32 23 14 13	1.7 3.0 3.2 2.0 2.0
26 27 28 29 30 31	0.56 0.67 0.58 0.60 0.60 0.58	0.42 0.42 0.42 0.42 0.42	0.38 0.38 0.38 0.36 0.44 0.45	0.62 0.67 0.60 0.59 0.60 0.59	0.61 0.53 0.41 0.41	0.38 0.38 0.38 0.38 0.38	13 15 27 40 41	14 14 9.4 2.0 5.7 7.4	3.4 3.6 4.4 3.2 8.6	9.7 7.0 12 12 14 17	12 13 13 13 11 8.5	2.0 2.0 3.3 5.9 5.7
TOTAL MEAN MAX MIN AC-FT	19.40 0.63 0.90 0.50 38	14.36 0.48 0.67 0.38 28	12.11 0.39 0.45 0.36 24	18.07 0.58 0.67 0.39 36	18.07 0.62 0.70 0.41 36	14.71 0.47 1.0 0.38 29	265.40 8.85 41 0.50 526	597.5 19.3 36 2.0 1,190	102.83 3.43 8.6 0.89 204	277.45 8.95 30 0.88 550	290.6 9.37 32 2.6 576	100.3 3.34 7.1 1.4 199
						,	VATER YEAR	` /				
MEAN MAX (WY) MIN (WY)	3.36 7.31 (1997) 0.49 (2003)	2.92 5.56 (1998) 0.48 (2004)	2.28 5.15 (1998) 0.39 (2004)	2.17 4.54 (1996) 0.42 (2003)	2.04 5.20 (1998) 0.42 (2003)	2.41 7.34 (1998) 0.47 (2004)	8.81 25.5 (1999) 0.81 (2002)	30.3 86.4 (1994) 0.47 (2002)	22.2 93.1 (1995) 0.37 (2002)	7.76 30.5 (1995) 0.59 (2001)	10.8 39.7 (1999) 0.40 (2002)	4.31 11.2 (1997) 0.51 (2002)
SUMMAF	RY STATIST	ICS		FOR 2003	CALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 199	2 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS		M	FOR 2003 CALENDAR YEAR 718.64 1.97  13 Jun 25 0.36 Mar 17 0.38 Dec 23			1,730.80 4.73 41 Apr 30 0.36 Dec 29 0.38 Dec 23 208 Jul 16 2.95 Jul 16 3.430			8.55 21.8 0.72 200 453 Apr 30, 199 0.10 Apr 8, 199 0.23 Mar 6, 199 a595 Jun 10, 199 b3.51 Jun 10, 199 6,190			
10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS					6.5 0.74 0.41			0.82 0.39			18 3.0 0.49	

e Estimated.

a From rating curve extended above 437 ft<sup>3</sup>/s. b Datum then in use.

#### 07105500 FOUNTAIN CREEK AT COLORADO SPRINGS, CO

LOCATION.--Lat 38°48′59", long 104°49′20", in NE¹/₄SW¹/₄ sec.19, T.14 S., R.66 W., El Paso County, Hydrologic Unit 11020003, on left bank 10 ft downstream from Cheyenne Creek, 31 ft upstream from Nevada Avenue bridge at Colorado Springs, and 1.3 mi downstream from Monument Creek.

PERIOD OF RECORD.--October 1921 to September 1924, January 1976 to current year. Monthly discharge only for some periods, published in WSP 1311. Statistical summary computed for 1976 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07105500

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 5,900 ft above NGVD of 1929, from topographic map.

REMARKS .-- No estimated daily discharges. Records fair. Natural flow of stream affected by storage reservoirs, power developments, transmountain diversions, diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants.

					R YEAR OCT		ET PER SECC TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	20 21 21 21 21 19	22 20 20 21 21	21 24 23 24 21	17 22 19 16 12	16 16 15 20 18	17 19 19 25 54	17 17 131 21 17	73 65 59 59 62	13 13 13 13 16	101 59 38 27 22	41 32 29 459 366	42 37 38 97 49
6 7 8 9 10	21 21 21 18 19	21 20 20 22 22 22	21 24 23 20 16	12 18 27 22 19	21 18 19 19 17	24 19 17 17 24	17 17 247 27 55	64 67 64 62 60	13 11 9.6 9.2 9.2	25 23 22 165 394	167 115 90 89 70	38 32 27 29 30
11 12 13 14 15	18 18 19 17	22 21 21 21 20	19 18 18 23 21	18 17 17 17 17	16 14 13 21 21	23 17 17 18 19	41 39 25 23 24	58 54 64 58 50	8.7 8.5 8.1 7.9	41 28 19 19 29	70 60 47 45 39	27 22 27 24 21
16 17 18 19 20	17 20 20 19 19	20 20 19 20 22	18 22 22 21 21	16 17 17 16 19	19 18 18 29 21	18 18 18 19	26 28 28 26 26	43 66 84 39 27	11 133 59 30 20	658 231 86 98 105	39 37 109 252 118	29 25 22 21 22
21 22 23 24 25	19 19 19 18 19	22 21 15 18 23	20 19 18 18 19	20 14 17 17 17	20 19 16 16 15	18 18 17 16 17	26 134 128 68 173	25 22 25 24 21	120 38 14 14 25	52 45 690 305 203	248 183 157 84 67	64 84 48 38 34
26 27 28 29 30 31	19 20 21 21 21 21	22 21 19 24 22	18 15 12 15 21	12 14 21 20 21 19	15 15 16 16 	18 17 17 18 18	76 65 76 84 99	20 21 22 18 15	67 576 313 72 244	103 88 96 92 61 47	67 200 110 69 59 49	35 32 44 43 41
TOTAL MEAN MAX MIN AC-FT	603 19.5 21 17 1,200	622 20.7 24 15 1,230	612 19.7 24 12 1,210	547 17.6 27 12 1,080	517 17.8 29 13 1,030	611 19.7 54 16 1,210	1,781 59.4 247 17 3,530	1,406 45.4 84 15 2,790	1,907.2 63.6 576 7.9 3,780	3,972 128 690 19 7,880	3,567 115 459 29 7,080	1,122 37.4 97 21 2,230
STATIST: MEAN	ICS OF MON 45.0	THLY MEA 39.7	N DATA FO 32.2	OR WATER Y 29.7	EARS 1976 - 28.1	2004, BY W 38.9	ATER YEAF 88.2	R (WY) 187	124	78.9	87.4	46.5
MAX (WY) MIN (WY)	212 (1985) 10.6 (1978)	143 (1985) 11.4 (1979)	81.3 (1985) 11.8 (1979)	68.1 (2000) 5.12 (1979)	57.8 (2000) 6.27 (1979)	92.6 (1998) 11.4 (1976)	486 (1999) 14.8 (1978)	944 (1999) 23.5 (1976)	555 (1997) 16.3 (1976)	268 (1995) 12.9 (1976)	341 (1999) 9.54 (2002)	116 (1999) 7.98 (1978)
SUMMAR	RY STATIST	ICS		FOR 2003 C	ALENDAR Y	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 197	6 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 90 PERCENT EXCEEDS		1	FOR 2003 CALENDAR YEAR  11,554.8 31.7  622 Aug 31 8.7 Jul 25 11 Jul 8  22,920 52 21			17,267.2 47.2 690 Jul 23 7.9 Jun 14 8.7 Jun 8 a6,150 Aug 4 7.81 Aug 4 34,250 93 21			7, b10, 51,	1999 1978 or 30, 1999 g 19, 1978 n 3, 1979 p 2, 1994 p 2, 1994		

a From rating curve extended above 3,070 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow at gage height 12.12 ft.

b From slope-area measurement of peak flow.
c From floodmark.

# ARKANSAS RIVER BASIN

# 07105530 FOUNTAIN CREEK BELOW JANITELL ROAD BELOW COLORADO SPRINGS, CO

LOCATION.--Lat 38°48'11", long 104°47'43", in NE  $^1$ <sub>4</sub>Se  $^1$ <sub>4</sub>sec.29, T.14 S., R.66 W., El Paso County, Hydrologic Unit 11020003, on left bank at downstream side of bridge on Janitell Road, 0.1 mi downstream from Spring Creek, and 2.4 mi southeast of courthouse in Colorado Springs.

PERIOD OF RECORD.--October 1989 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=07105530

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 5,840 ft above NGVD of 1929, from topographic map. Prior to July 10, 1990, at site 500 ft upstream at datum 2.00 ft higher. July 10, 1990 to May 27, 1999, on right bank at upstream side of bridge on Janitell Road at same datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, power developments, ground-water withdrawals, transmountain diversions, diversions for irrigation and municipal use, return flows from irrigated areas, and flows from sewage-treatment plants.

					YEAR OC		ET PER SECO TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	74 77 73 82 78	88 88 87 84 84	41 43 42 43 45	40 46 44 42 36	42 41 39 45 43	89 86 86 101 164	79 77 302 103 89	143 e130 e120 e115 111	64 78 81 78 90	103 80 59 49 44	110 86 79 796 790	91 87 84 185 93
6 7 8 9 10	76 74 75 70 74	83 77 81 86 85	46 49 47 46 44	34 42 47 41 40	47 48 47 44 42	103 84 80 79 93	82 e80 e340 e110 143	111 116 114 110 105	86 73 67 65 65	57 61 60 422 314	458 247 181 171 136	79 90 87 90 88
11 12 13 14 15	76 77 78 75 75	65 55 70 73 60	47 44 46 52 48	41 38 37 37 38	40 39 61 81 83	95 82 82 85 84	108 102 78 71 67	102 91 111 111 98	62 61 62 61 244	97 76 63 63 105	142 114 94 155 80	91 84 81 79 76
16 17 18 19 20	74 78 78 80 78	54 48 45 44 44	45 49 49 47 48	37 39 41 42 44	85 84 85 114 96	80 81 78 82 81	70 73 71 66 59	87 115 141 80 63	59 269 165 95 68	1,450 325 146 149 172	68 61 420 631 207	86 80 82 85 82
21 22 23 24 25	79 77 77 74 78	45 45 42 42 45	46 43 44 46 40	44 39 41 41 44	94 93 88 87 85	78 76 72 68 71	62 262 230 117 256	57 53 56 62 73	232 104 61 62 89	122 96 1,090 432 376	571 298 219 122 103	179 197 128 94 88
26 27 28 29 30 31	80 80 79 80 79 83	45 44 40 45 43	42 40 37 38 44 41	38 40 46 45 46 44	83 84 88 88	75 76 78 79 78 76	126 117 130 145 174	70 66 68 59 53 59	171 595 159 73 214	195 167 195 192 138 119	104 309 158 120 109 95	93 84 94 96 89
TOTAL MEAN MAX MIN AC-FT	2,388 77.0 83 70 4,740	1,837 61.2 88 40 3,640	1,382 44.6 52 37 2,740	1,274 41.1 47 34 2,530	1,996 68.8 114 39 3,960	2,622 84.6 164 68 5,200	3,789 126 340 59 7,520	2,850 91.9 143 53 5,650	3,653 122 595 59 7,250	7,017 226 1,450 44 13,920	7,234 233 796 61 14,350	2,942 98.1 197 76 5,840
STATIST MEAN MAX (WY) MIN	101 179 (2000) 47.3	94.6 150 (2000) 48.6	74.7 140 (1998) 39.5	77.4 122 (1998) 41.1	92.1 139 (2000) 56.4	105 161 (1998) 76.4	7ATER YEAI 163 658 (1999) 77.9	258 1,022 (1999) 78.6	215 693 (1997) 69.4	147 319 (1995) 70.1	168 467 (1999) 68.3	109 200 (1999) 59.7
(WY)	(1993)	(1990)	(1990)	(2004)	(1990)	(1991)	(2002)	(1993)	(1990)	(1993)	(2002)	(1992)
	RY STATIST	TCS		FOR 2003 CA	ALENDAR '	YEAR		)4 WATER Y	EAR	WATER	YEARS 199	0 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE 50 PERCE	. MEAN T ANNUAL M T ANNUAL M T DAILY ME T DAILY ME	MEAN AN AN Y MINIMUN OW 'AGE AC-FT) DS DS	M	29,624 81. 871 28 30 58,760 115 73 43	2 Aug Jan Jan	16	10,40 1 77,32 17	50 Ju 34 Jar 38 Jar 00 Aug 10.27 Aug 20		10,3 a13,8 t 99,6	28 Ja 30 Ja 800 Aj 510.55 Aj	1999 1993 pr 30, 1999 in 16, 2003 pr 30, 1999 pr 30, 1999

a From rating curve extended above 13,200 ft<sup>3</sup>/s. b Maximum gage height, 11.11 ft, Sep 2, 1994.

# 07105600 SAND CREEK ABOVE MOUTH AT COLORADO SPRINGS, CO

LOCATION.--Lat 38°47'18", long 104°46'24", in  $NW^{1}_{4}SW^{1}_{4}$  sec.34, T.14 S., R.66 W., El Paso County, Hydrologic Unit 11020003, on left bank 0.2 mi upstream from Las Vegas Street bridge at Colorado Springs, 0.7 mi upstream from mouth, and 4.0 mi southeast of courthouse in Colorado Springs.

DRAINAGE AREA.--52.5 mi<sup>2</sup>.

PERIOD OF RECORD.--April 2003 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07105600

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 5,837 ft above NGVD of 1929, from topographic map.

REMARKS.—Records fair except for estimated daily discharges and those above 700 ft<sup>3</sup>/s, which are poor. Natural flow of stream affected by several small storage reservoirs, ground-water withdrawals, and flows from sewage-treatment plants.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum discharge, 5,720 ft<sup>3</sup>/s, June 27, 2004, gage height, 6.22 ft, from floodmarks, from rating curve extended above 681 ft<sup>3</sup>/s on basis of step-backwater analysis; minimum daily, 1.2 ft<sup>3</sup>/s, Aug. 21, 2003.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 5,720 ft<sup>3</sup>/s, June 27, gage height, 6.22 ft, from floodmarks, from rating curve extended above 681 ft<sup>3</sup>/s on basis of step-backwater analysis; minimum daily, 1.8 ft<sup>3</sup>/s, July 6,8.

REVISIONS.--The maximum discharge for the water year 2003 has been revised to 2,090 ft<sup>3</sup>/s, Aug. 31, 2003, gage height, 4.56 ft.

# DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							2.4	3.4	2.6	6.5	8.9	5.1
2							2.9	3.3	2.9	2.9	9.5	5.8
3							e35	3.3	2.9	2.6	7.9	6.7
4							e8.0	2.8	2.8	2.2	72	22
5							e6.5	3.0	6.8	1.9	94	13
6							4.3	2.5	2.7	1.8	77	7.3
7							9.7	2.9	2.3	2.0	62	6.9
8							127	2.6	5.0	1.8	26	6.6
9							10	2.9	3.6	e185	25	6.2
10							16	2.9	3.0	e4.0	26	6.0
11							7.3	2.9	2.8	e3.5	34	5.6
12							5.1	2.6	2.5	e3.0	18	5.6
13							3.8	4.5	2.2	e3.0	18	5.4
14							3.9	3.0	2.2	e3.2	32	4.9
15							3.1	3.4	131	e15	6.3	4.7
16							2.8	2.8	23	e600	8.0	4.2
17							2.9	11	65	e90	8.9	3.5
18							2.6	3.6	67	e10	79	2.9
19							2.6	3.1	23	e5.0	82	3.5
20							3.3	3.7	53	11	45	4.0
21							5.4	3.1	82	7.5	144	12
22							61	3.1	45	7.9	75	14
23							30	2.7	17	179	28	6.7
24							10	3.1	15	87	20	5.9
25							58	3.3	13	92	14	6.1
26							7.0	2.8	81	16	8.6	5.0
27							5.5	2.8	706	15	11	4.9
28							4.4	3.1	e100	18	9.9	4.7
29							4.0	3.2	e5.0	12	7.4	4.4
30							6.9	3.0	e100	13	6.8	4.2
31								2.5		9.4	5.8	
TOTAL							451.4	102.9	1,570.3	1,411.2	1,070.0	197.8
MEAN							15.0	3.32	52.3	45.5	34.5	6.59
MAX							127	11	706	600	144	22
MIN							2.4	2.5	2.2	1.8	5.8	2.9
AC-FT							895	204	3,110	2,800	2,120	392

e Estimated.

# ARKANSAS RIVER BASIN

#### 07105800 FOUNTAIN CREEK AT SECURITY, CO

 $LOCATION.--Lat~38^\circ 43'46", long~104^\circ 44'00", in~NE^{1}_{4}SW^{1}_{2} sec. 24, T.15~S., R.66~W., El~Paso~County, Hydrologic~Unit~11020003, on right bank~20~ft~downstream~from~Carson~Road~bridge~at~Security,~0.9~mi~southwest~of~South~Security~School,~3.5~mi~northeast~of~Fountain,~and~5.5~mi~upstream~from~Jimmy~Camp~Creek.$ 

DRAINAGE AREA.--495 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1964 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=07105800

REVISED RECORDS .-- WDR CO-85-1: 1984 (M).

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 5,640 ft above NGVD of 1929, from topographic map. July 19, 1972 to Feb. 20, 1980, at site 880 ft downstream at datum 1.00 ft higher. Prior to July 19, 1972, and from Feb. 21, 1980 to Mar. 23, 2003, at site 20 ft upstream on left bank; prior to July 19, 1972, and from Feb. 21, 1980 to June 30, 1986, at datum 7.00 ft higher; July 1, 1986 to Feb. 6, 1995, at datum 4.00 ft higher; Feb 7, 1995 to Nov. 29, 1995, at datum 3.00 ft higher; Nov. 30, 1995 to Apr. 4, 2001, at datum 2.00 ft higher; and Apr. 14, 2001 to Mar. 23, 2003, at present datum.

DISCHARGE, CUBIC FEET PER SECOND

REMARKS.--Records fair except estimated daily discharges and those above 700 ft<sup>3</sup>/s, which are poor. Natural flow of stream affected by storage reservoirs, power developments, transmountain diversions, diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants.

					YEAR OC		ET PER SECC TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	88	53	55	62	102	88	163	61	138	172	117
2	83	88	55	62	59	103	85	145	71	113	143	119
3	79	88	54	61	57	102	277	107	74	86	126	118
4	86	87	54	59	75	114	91	100	71	82	714	326
5	80	93	55	55	96	184	88	107	83	80	511	164
6	78	89	56	56	102	94	92	107	80	93	252	109
7	80	83	59	58	96	84	101	112	e79	106	172	115
8	83	84	59	66	96	85	353	115	e77	113	133	105
9	77	88	57	61	98	91	122	111	e76	417	174	107
10	82	85	56	58	91	101	152	115	75	358	147	107
11	83	76	57	58	91	119	128	109	75	97	169	112
12	83	73	57	58	89	103	120	101	70	81	131	107
13	84	80	56	56	88	105	93	103	72	75	103	107
14	82	73	61	57	97	108	84	120	70	81	140	104
15	82	75	60	60	101	110	78	94	431	112	94	103
16	81	75	56	60	98	106	77	85	78	1,830	88	111
17	86	64	57	58	100	107	78	94	309	218	80	113
18	88	54	60	60	103	103	79	171	201	133	864	113
19	88	53	58	62	130	105	80	77	117	132	906	115
20	87	53	58	64	111	105	82	66	96	233	189	116
21	89	52	58	64	110	104	84	78	282	140	676	227
22	86	53	56	59	108	103	226	72	160	125	361	311
23	87	52	56	60	102	99	251	72	108	1,300	290	193
24	81	52	58	62	101	94	115	69	102	416	123	114
25	85	55	55	65	98	95	179	82	116	336	96	98
26 27 28 29 30 31	85 83 81 81 82 86	63 78 70 66 54	55 54 51 53 56 57	59 59 65 65 67 66	98 97 101 101 	97 96 92 91 89 86	117 108 111 108 136	69 67 65 54 51 60	238 799 257 101 259	144 169 228 242 190 178	102 313 295 186 140 119	102 99 102 118 107
TOTAL	2,582	2,144	1,747	1,875	2,756	3,177	3,783	2,941	4,688	8,046	8,009	3,959
MEAN	83.3	71.5	56.4	60.5	95.0	102	126	94.9	156	260	258	132
MAX	89	93	61	67	130	184	353	171	799	1,830	906	326
MIN	77	52	51	55	57	84	77	51	61	75	80	98
AC-FT	5,120	4,250	3,470	3,720	5,470	6,300	7,500	5,830	9,300	15,960	15,890	7,850
				OR WATER YI		,		` ′	107	126	120	00.0
MEAN	83.6	75.8	64.7	69.0	77.3	88.8	124	209	187	126	139	88.9
MAX	317	198	168	146	156	195	738	1,131	886	381	561	231
(WY)	(1985)	(2000)	(2000)	(1998)	(2000)	(2000)	(1999)	(1999)	(1997)	(1995)	(1999)	(1999)
MIN	12.6	15.1	17.8	11.9	14.1	21.3	23.7	24.7	17.8	30.1	23.5	13.1
(WY)	(1965)	(1965)	(1976)	(1976)	(1972)	(1965)	(1978)	(1966)	(1968)	(1972)	(1974)	(1968)
SUMMAI	RY STATIST	TCS		FOR 2003 CA	ALENDAR	YEAR	FOR 200	)4 WATER Y	EAR	WATER	YEARS 196	65 - 2004
LOWEST HIGHEST LOWEST ANNUAL	MEAN ANNUAL M ANNUAL M DAILY ME DAILY ME SEVEN-DA	IEAN AN AN Y MINIMUN	Л	36,161 99. 913 50 53	1 Aug Jan Nov	10		25 30 Ju	1 16 2 28 7 18	e11,0	1.9 M 4.2 Fe	1999 1968 pr 30, 1999 far 1, 1965 eb 25, 1965
MAXIMU ANNUAL 10 PERCE 50 PERCE	JM PEAK FL JM PEAK ST L RUNOFF (A ENT EXCEE ENT EXCEE ENT EXCEE	'AGE AC-FT) DS DS		71,730 137 85 56			90,66 19	7.95 Aug 60	g 4 g 4	80,5	c11.30 J	Jul 24, 1965 Jul 24, 1965

a From rating curve extended above 6,520 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow at gage height 7.18 ft.
 b From slope-area measurement of peak flow. Flood of May 30, 1935, may have been larger.
 c From floodmarks, site and datum then in use.

# 07105900 JIMMY CAMP CREEK AT FOUNTAIN, CO

LOCATION.--Lat 38°41′04", long 104°41′17", in NW¹½SE¹½ sec.5, T.16 S., R.65 W., El Paso County, Hydrologic Unit 11020003, on right bank 110 ft downstream of bridge on county road, 0.2 mi east of Fountain, and 1.5 mi upstream from mouth.

DRAINAGE AREA.--65.6 mi<sup>2</sup>.

PERIOD OF RECORD.--January 1976 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=07105900

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 5,530 ft above NGVD of 1929, from topographic map. Prior to Aug. 14, 1991, at site 110 ft upstream on downstream side of bridge; Jan. 1976 to Sept. 3, 1986, at datum 4.0 ft higher and Sept. 4, 1986 to Aug. 13, 1991, at present datum.

REMARKS.--Records poor. Natural flow of stream affected by storage reservoirs, ground-water withdrawals, diversions for irrigation, and return flows from irrigated areas.  $EXTREMES\ OUTSIDE\ PERIOD\ OF\ RECORD. -- Flood\ of\ June\ 17,\ 1965,\ reached\ an\ estimated\ discharge\ of\ 124,000\ ft^3/s,\ gage\ height,\ unknown.$ 

					R YEAR O	E, CUBIC FE CTOBER 2003 AILY MEAN V	3 TO SEPTEN					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.45 0.50 0.48 0.59 0.66	0.91 0.81 0.88 0.79 e0.80	0.69 0.71 0.70 e0.75 e0.80	e0.70 0.72 0.77 e0.80 e0.76	0.57 e0.57 e0.60 0.64 0.63	e0.73 e0.74 e0.75 e0.75 e0.77	e0.70 e0.72 e0.80 e0.75 e0.73	0.75 0.76 0.76 0.73 0.74	1.2 1.2 1.2 1.1 1.0	e1.3 e0.47 e0.45 0.43 0.45	0.90 0.73 0.58 0.53	0.93 0.91 0.87 0.91 0.86
6 7 8 9 10	0.66 0.65 0.67 0.67 0.70	e0.81 e0.82 e0.81 e0.82	0.78 0.72 0.78 1.1 e1.0	e0.83 e0.70 0.73 0.68 e0.70	e0.60 e0.60 e0.58 e0.58 e0.58	e0.80 e0.80 e0.85 0.81 0.79	e0.72 e0.71 0.81 0.85 0.90	0.73 0.79 0.84 0.84 1.1	0.93 0.88 0.93 0.97 0.92	0.41 0.46 0.56 0.67 0.64	e55 e4.3 e4.0 e2.5 2.3	0.84 1.0 3.5 0.94 0.94
11 12 13 14 15	0.72 0.80 0.73 0.72 e0.77	e0.82 e0.82 e0.83 e0.83	e1.1 e1.1 e1.1 1.2 1.3	e0.70 e0.70 e0.70 e0.60 e0.52	e0.60 e0.60 e0.61 e0.60 e0.60	0.75 0.74 e0.73 e0.72 e0.71	0.79 0.77 0.74 0.73 0.72	0.96 1.0 1.1 1.1 1.2	0.87 0.91 0.86 0.75 0.75	0.52 0.59 0.48 0.44 0.71	3.9 1.9 1.7 1.4 1.2	0.91 0.89 0.86 0.86 0.81
16 17 18 19 20	e0.84 0.89 0.89 0.89 0.90	0.83 0.83 0.84 0.77 0.76	e1.3 e1.4 e1.3 e1.3 e1.2	0.52 0.53 e0.52 e0.52 0.57	e0.61 e0.64 e0.65 e0.65 e0.67	e0.69 e0.68 e0.67 e0.66 e0.65	0.94 0.74 0.63 0.62 0.60	1.2 1.3 1.3 1.3 1.2	0.85 1.1 1.9 1.5 1.4	25 22 3.1 1.8 1.3	1.1 1.2 9.6 28 4.7	0.72 0.73 0.71 0.73 0.70
21 22 23 24 25	0.90 0.90 0.92 0.94 0.97	0.76 0.80 e0.83 e0.80 0.76	1.3 1.4 e1.4 e1.4 e1.3	0.58 e0.58 e0.58 e0.58 e0.58	e0.69 e0.70 e0.72 e0.75 e0.75	e0.64 e0.63 e0.62 e0.61 0.60	0.63 1.3 2.2 1.2 1.7	1.3 1.2 1.3 1.3 1.3	1.6 1.4 1.2 1.0 0.99	1.1 2.4 7.9 14 3.3	8.8 2.8 1.7 1.2 1.1	0.74 0.86 0.81 0.68 0.68
26 27 28 29 30 31	1.0 0.98 0.98 0.95 0.94 0.97	e0.76 0.76 e0.76 0.73 0.70	e1.0 e0.70 e0.70 e0.70 e0.70 e0.70	e0.58 e0.58 e0.55 0.53 0.54 0.58	0.68 e0.70 e0.71 e0.72	0.57 0.58 0.58 0.58 e0.60 0.63	1.2 1.0 0.90 0.81 0.93	1.3 1.2 1.2 1.2 1.2 1.2	1.1 3.3 1.8 e1.5 e1.5	1.8 1.4 6.3 3.5 1.5	1.0 1.1 1.1 1.0 0.98 0.94	0.79 0.51 0.42 0.72 0.80
TOTAL MEAN MAX MIN AC-FT	24.63 0.79 1.0 0.45 49	24.08 0.80 0.91 0.70 48	31.63 1.02 1.4 0.69 63	19.53 0.63 0.83 0.52 39	18.60 0.64 0.75 0.57 37	21.43 0.69 0.85 0.57 43	26.84 0.89 2.2 0.60 53	33.40 1.08 1.3 0.73 66	36.61 1.22 3.3 0.75 73	106.08 3.42 25 0.41 210	241.26 7.78 94 0.53 479	26.63 0.89 3.5 0.42 53
STATIST	ICS OF MO	NTHLY MEA	AN DATA F	OR WATER Y	YEARS 1976	6 - 2004, BY V	VATER YEA	R (WY)				
MEAN MAX (WY) MIN (WY)	2.01 3.55 (1985) 0.79 (2004)	2.17 6.49 (1982) 0.80 (2004)	1.76 3.17 (1995) 0.87 (1988)	1.64 2.74 (1986) 0.63 (2004)	1.57 2.39 (1977) 0.64 (2004)	1.69 3.54 (1980) 0.69 (2004)	2.01 9.33 (1999) 0.56 (1990)	2.53 10.1 (1995) 0.91 (1986)	3.45 27.8 (1995) 0.98 (1989)	3.50 27.9 (1985) 0.35 (2003)	4.46 13.4 (1984) 0.33 (2002)	1.73 5.12 (1994) 0.58 (2003)
SUMMAR	RY STATIST	TICS		FOR 2003 (	CALENDAR	R YEAR	FOR 20	04 WATER Y	/EAR	WATER	YEARS 19	76 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE	MEAN ANNUAL ANNUAL DAILY ME DAILY ME	MEAN EAN AN AY MINIMU LOW TAGE AC-FT) DS	M	e3 79	0.16 Ju 0.23 Ju	n 20 nl 25 nl 19		0.41 Ju 0.46 Ju 40 Au 9.48 Au		c4,	a0.00 A 0.07 A 810 .	1995 2003 Jul 28, 1985 Apr 12, 1990 Apr 10, 1990 Jun 3, 1994 Jun 3, 1994
	ENT EXCEE				0.94			0.80			1.7	

0.58

0.88

90 PERCENT EXCEEDS

0.33

e Estimated.

Also occurred Apr 13, 15, 1990. From rating curve extended above 418 ft<sup>3</sup>/s. From contracted-opening measurement of peak flow.

d From floodmarks.

# ARKANSAS RIVER BASIN

# 07105945 ROCK CREEK ABOVE FORT CARSON RESERVATION, CO

 $LOCATION.--Lat~38^{\circ}42'27'', long~104^{\circ}50'46'', in~NW^{1}_{4}NW^{1}_{4} sec. 36, T.15~S., R.67~W., El~Paso~County, Hydrologic~Unit~11020003, on right bank~20~ft~upstream~from~County~road~bridge,~0.6~mi~northwest~of~Rock~Creek~Park,~1.2~mi~upstream~from~State~Highway~115,~and~3.2~mi~southwest~of~Fort~Carson~Military~Reservation.$ 

DRAINAGE AREA.--6.79 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1978 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=07105945

REVISED RECORDS .-- WDR CO-85-1: 1982 (M).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,390 ft above NGVD of 1929, from topographic map. Prior to Oct. 10, 1997, at site 50 ft downstream.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

					R YEAR OC		ET PER SECO 3 TO SEPTEM /ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.08 0.08 0.08 0.10 0.12	0.23 0.25 0.24 0.25 0.23	0.12 0.12 0.12 0.12 0.14	0.12 0.14 0.15 0.15 e0.09	0.16 e0.10 e0.13 0.17 0.16	0.31 0.29 0.25 0.26 0.32	0.51 0.60 1.3 1.1 1.2	11 9.6 11 13 15	0.59 0.56 0.45 0.41 0.42	0.93 0.79 0.61 0.52 0.44	4.0 3.2 2.6 2.2 2.0	1.1 0.97 0.83 1.0 1.0
6 7 8 9 10	0.11 0.09 0.08 0.07 0.09	0.23 0.24 0.24 0.28 0.27	0.16 0.17 0.15 0.17 0.16	e0.08 e0.24 0.28 0.25 0.24	e0.11 e0.13 0.17 e0.12 e0.12	0.41 0.59 0.76 1.00 1.2	1.3 1.2 5.6 8.0 7.8	16 13 11 8.7 7.2	0.41 0.34 0.29 0.29 0.28	0.37 0.35 0.28 0.24 0.53	1.9 1.7 1.6 1.7 1.4	0.82 0.74 0.67 0.61 0.57
11 12 13 14 15	0.08 0.10 0.12 0.12 0.14	0.25 0.26 0.27 0.28 0.26	0.17 0.16 0.16 0.15 0.14	0.23 0.22 0.22 0.22 0.23	e0.09 e0.05 e0.09 0.14 0.14	1.1 0.95 0.98 0.94 0.86	5.8 5.0 4.5 5.0 5.0	6.2 5.2 4.8 4.4 3.6	0.26 0.23 0.20 0.18 0.18	0.82 0.46 0.36 0.28 0.24	1.3 1.3 1.3 1.1 0.98	0.52 0.55 0.46 0.44 0.44
16 17 18 19 20	0.14 0.14 0.14 0.12 0.11	0.25 0.26 0.24 0.15 0.13	0.14 0.16 0.14 0.14 0.13	0.23 0.18 0.17 0.17	0.13 0.14 0.22 0.36 0.30	0.80 0.92 1.2 0.90 0.93	4.8 4.4 4.0 3.6 3.2	3.1 2.6 2.4 2.2 2.0	0.28 0.32 0.40 0.47 0.35	5.9 12 7.7 5.3 4.1	0.86 0.73 0.73 1.9 2.2	0.42 0.37 0.32 0.31 0.31
21 22 23 24 25	0.09 0.08 0.08 0.12 0.16	0.12 0.13 0.12 0.10 0.10	0.11 0.10 0.10 0.11 0.13	0.18 0.17 0.19 0.19 0.18	0.23 0.22 0.22 0.20 0.21	0.93 0.83 0.84 0.95 0.94	2.8 2.8 2.3 3.5 4.2	1.8 1.7 1.5 1.4 1.2	0.37 0.47 0.31 0.23 0.31	3.3 2.7 3.2 6.5 16	3.2 2.7 2.2 2.0 1.8	0.39 0.89 0.63 0.50 0.48
26 27 28 29 30 31	0.19 0.19 0.16 0.15 0.14 0.16	0.10 0.12 0.12 0.13 0.12	0.15 0.13 0.11 0.11 0.15 0.10	e0.09 e0.11 0.18 0.17 0.16 0.17	0.25 0.32 0.35 0.33	0.88 0.85 0.77 0.69 0.66 0.58	4.9 9.9 19 20 14	1.1 1.0 0.93 0.82 0.79 0.67	0.57 1.6 2.4 1.4 1.1	15 11 9.2 8.0 6.9 5.3	1.6 1.7 1.8 1.5 1.4	0.46 0.44 0.48 0.49 0.46
TOTAL MEAN MAX MIN AC-FT	3.63 0.12 0.19 0.07 7.2	5.97 0.20 0.28 0.10	4.22 0.14 0.17 0.10 8.4	5.59 0.18 0.28 0.08	5.36 0.18 0.36 0.05	23.89 0.77 1.2 0.25 47	157.31 5.24 20 0.51 312	164.91 5.32 16 0.67 327	15.67 0.52 2.4 0.18 31	129.32 4.17 16 0.24 257	55.80 1.80 4.0 0.73 111	17.67 0.59 1.1 0.31 35
							VATER YEAR	` ′	4.00	4.05	2.00	
MEAN MAX (WY) MIN (WY)	1.34 20.7 (1985) 0.00 (1979)	0.90 10.7 (1985) 0.03 (1979)	0.47 2.25 (1985) 0.05 (1979)	0.44 1.42 (1985) 0.07 (1979)	0.46 1.33 (1985) 0.12 (1979)	1.00 2.56 (1998) 0.27 (2002)	4.67 20.7 (1999) 0.26 (2002)	9.94 39.1 (1995) 0.10 (2002)	4.80 32.7 (1997) 0.02 (2002)	1.87 7.23 (1985) 0.01 (1978)	3.00 18.1 (1999) 0.00 (1978)	1.15 7.75 (1982) 0.00 (1978)
SUMMAR	XY STATIST	ICS		FOR 2003	CALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 197	8 - 2004
LOWEST HIGHEST LOWEST	MEAN ANNUAL M ANNUAL M DAILY ME DAILY ME	IEAN AN AN			5.50 0.86 7.2 May 0.00 Aug		2 •		r 29 o 12	3		1985 2002 pr 30, 1999 ul 6, 1978
MAXIMU MAXIMU ANNUAL 10 PERCE 50 PERCE	SEVEN-DA M PEAK FL M PEAK ST RUNOFF (A ENT EXCEE ENT EXCEE ENT EXCEE	OW TAGE AC-FT) DS DS	M	62	0.03 Aug		2	28 Ju 3.22 Ju	t 6 116 116		770 Ju	ul 6, 1978 in 10, 1997 in 10, 1997

e Estimated.

a No flow on many days during many years.
 b From rating curve extended above 133 ft<sup>3</sup>/s on basis of width-contraction measurement of peak flow at gage height 5.28 ft.
 c From floodmark, site then in use.

### 07106000 FOUNTAIN CREEK NEAR FOUNTAIN, CO

LOCATION.--Lat 38°36′06", long 104°40'11", in  $SW^{1}/_{4}NE^{1}/_{4}$  sec.4, T.17 S., R.65 W., El Paso County, Hydrologic Unit 11020003, on left bank 10 ft downstream from Old Pueblo Road bridge, 190 ft downstream from Denver & Rio Grande Railroad bridge, 0.9 mi downstream from Little Fountain Creek, and 5.6 mi south of Fountain.

PERIOD OF RECORD.--October 1938 to February 1940 (monthly records only), March 1940 to September 1954; July 1985 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07106000

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 5,355 ft above NGVD of 1929, from topographic map. Sept. 18, 1938 to Mar. 1, 1940, nonrecording gage at site 40 ft upstream on right bank at different datum. Mar. 2, 1940 to Sept. 30, 1954, at site 290 ft upstream on right bank at different datum. July 2, 1985 to Sept. 2, 1987, at site 590 ft upstream on right bank at different datum. Sept. 3, 1987 to Mar. 12, 1990, at site 1,190 ft upstream on right bank at different datum. March 13, 1990 to Oct. 30, 2002, at site 90 ft upstream on right bank.

REMARKS.--Records fair except for estimated daily discharges and those above 1,000 ft<sup>3</sup>/s, which are poor. Natural flow of stream affected by storage reservoirs, power developments, ground-water withdrawals, transmountain diversions, diversions for irrigation and municipal use, return flows from irrigated areas, and flows from sewage-treatment plants.

EXTREMES OUTSIDE PERIOD OF RECORD. -- Maximum stage known, 14.4 ft, at different datum, May 30, 1935, discharge undetermined. Floods of May 1935 and June 1965 probably exceeded flood of May 1940.

				R YEAR OC	TOBER 2003	TO SEPTEM					
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
82 84 84 85 72	e104 106 111 124 117	80 78 71 70 69	54 60 62 64 65	72 70 68 72 98	100 98 95 98 e202	111 107 376 119 89	171 144 118 95 93	68 78 88 79 79	211 131 84 74 62	132 116 119 245 987	122 119 121 146 165
76 76 79 75 78	124 108 109 122 124	66 65 66 65 64	60 64 75 63 59	105 102 102 104 100	e145 125 113 114 115	89 79 1,000 201 228	90 97 103 101 95	96 84 73 80 78	60 66 76 254 714	525 255 233 199 206	104 102 105 113 116
77 82 77 77 76	113 102 104 108 104	63 62 60 59 61	62 60 58 61 62	99 102 106 101 113	131 116 107 103 104	223 190 144 123 111	72 78 83 130 92	79 90 92 87 566	130 91 75 71 88	189 158 143 130 199	112 93 89 90 91
68 64 78 83 82	108 103 80 78 72	56 56 61 63 67	64 59 59 60 61	114 115 113 128 137	101 104 107 110 109	106 94 89 83 77	78 71 179 85 58	180 229 310 175 104	1,900 e430 223 167 271	119 116 781 1,350 367	91 99 98 89 95
82 80 85 76 83	73 74 74 81 80	65 64 62 66 62	62 62 62 63 64	124 122 116 111 109	109 113 110 104 102	74 238 558 217 400	55 46 53 54 67	240 288 87 73 92	210 196 1,310 917 663	1,080 372 308 176 159	101 194 116 101 98
89 86 86 86 90 97	87 116 101 104 83	54 56 58 55 59	67 68 72 68 71 75	106 103 106 100 	107 108 115 114 101 101	207 156 133 148 195	62 56 56 54 57 56	248 1,210 449 140 287	295 211 209 216 167 139	157 253 324 177 166 137	98 94 91 93 80
2,495 80.5 97 64 4,950	2,994 99.8 124 72 5,940	1,962 63.3 80 54 3,890	1,966 63.4 75 54 3,900	3,018 104 137 68 5,990	3,481 112 202 95 6,900	5,965 199 1,000 74 11,830	2,649 85.5 179 46 5,250	5,829 194 1,210 68 11,560	9,711 313 1,900 60 19,260	9,878 319 1,350 116 19,590	3,226 108 194 80 6,400
					,		` ′	150	122	150	740
73.2 266 (2000) 3.70 (1954)	89.7 253 (2000) 10.0 (1940)	74.5 231 (2000) 5.14 (1953)	75.8 214 (2000) 6.99 (1952)	81.3 201 (2000) 6.07 (1941)	91.4 224 (2000) 6.39 (1941)	787 (1999) 4.30 (1954)	1,602 (1999) 9.78 (1950)	1,080 (1997) 4.50 (1953)	432 (1995) 3.47 (1952)	713 (1999) 3.15 (1954)	74.8 242 (1999) 1.31 (1939)
RY STATIST	TCS		FOR 2003 C	ALENDAR `	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 193	9 - 2004
ANNUAL MEDAILY	MEAN AN AN Y MINIMUN OW 'AGE AC-FT) DS DS	А	1,390 33 41 79,750 146 89	Aug Apr Apr	12	1,90 4 5 8,66 105,50 22	00 Ju 66 Ma; 66 Ma; 60 Ju 9.14 Ju 00	y 22 y 21 1 23	13,2 b22,1 82,5	130 10.3 200 A <sub>1</sub> a0.00 Se 0.27 Jr 00 Ma c9.19 Ma 110 122 72	1999 1953 or 30, 1999 pp 24, 1939 al 18, 1939 uy 28, 1940 uy 28, 1940
	82 84 84 84 84 85 72 76 76 79 75 78 77 76 68 64 78 83 82 82 80 85 76 83 89 86 86 86 86 86 90 97 2,495 80.5 97 64 4,950 ICS OF MON 73.2 266 (2000) 3,70 (1954) RY STATIST TOTAL MEAN MEAN MEAN MEAN MEAN MEAN MEAN MEAN	82 e104 84 106 84 111 85 124 72 117 76 124 76 108 79 109 75 122 78 124 77 113 82 102 77 104 77 108 76 104 68 108 64 103 78 80 83 78 82 72 82 73 80 74 85 74 76 81 83 80 89 87 86 116 86 101 86 104 90 83 97 2,495 2,994 80.5 99.8 97 124 64 72 4,950 5,940 ICS OF MONTHLY MEA  73.2 89.7 266 253 (2000) (2000) 3.70 10.0 (1954) (1940) RY STATISTICS TANNUAL MEAN ANNUAL MEAN ANNUAL MEAN ANNUAL MEAN TOAILY MEAN	82 e104 80 84 106 78 84 111 71 85 124 70 72 117 69 76 124 66 76 108 65 79 109 66 75 122 65 78 124 64 77 113 63 82 102 62 77 104 60 77 108 59 76 104 61 68 108 56 64 103 56 64 103 56 64 103 56 78 80 61 83 78 63 82 72 67 82 73 65 80 74 64 85 74 62 76 81 66 83 80 62 89 87 54 86 116 56 86 101 58 86 104 55 90 83 59 97 59 2,495 2,994 1,962 80.5 99.8 63.3 97 124 80 64 72 54 4,950 5,940 3,890 ICS OF MONTHLY MEAN DATA FO 73.2 89.7 74.5 266 253 231 (2000) (2000) (2000) 3,70 10.0 5.14 (1954) (1940) (1953) RY STATISTICS TOTAL MEAN SEVEN-DAY MINIMUM IMPEAK STAGE IRUNOFF (AC-FT) SNT EXCEEDS SNT EXCEEDS SNT EXCEEDS	OCT NOV DEC JAN  82 e104 80 54  84 106 78 60  84 111 71 62  85 124 70 64  72 117 69 65  76 124 66 60  76 108 65 64  79 109 66 75  75 122 65 63  78 124 64 59  77 113 63 62  82 102 62 60  77 104 60 58  77 108 59 61  76 104 61 62  68 108 56 64  64 103 56 59  78 80 61  59 83 78 80 61  59 83 78 63 60  82 72 67 61  82 73 65 62  80 74 64 62  85 74 62 62  76 81 66 63  83 80 62 64  89 87 54 67  86 116 56 68  86 101 58 72  87 86 116 56 68  88 101 58 72  87 86 116 56 68  88 101 58 72  87 54 67  88 106 63  89 87 54 67  86 116 56 68  86 101 58 72  87 54 67  87 54 67  88 61 104 55 68  89 87 54 67  86 116 56 68  86 101 58 72  87 54 67  88 61 104 55 68  90 83 59 71  97 59 75  2,495 2,994 1,962 1,966  80.5 99.8 63.3 63.4  97 124 80 75  64 72 54 54  4,950 5,940 3,890 3,900  ICS OF MONTHLY MEAN DATA FOR WATER Y  73.2 89.7 74.5 75.8  266 253 231 214  2000) (2000) (2000) (2000)  3.70 10.0 5.14 6.99  (1954) (1940) (1953) (1952)  RY STATISTICS FOR 2003 C  ATOTAL  MEAN  DAILY MEAN  ANNUAL MEAN  ANNUAL MEAN  ANNUAL MEAN  ANNUAL MEAN  DAILY MEAN  SEVEN-DAY MINIMUM  M PEAK STAGE  RUNOFF (AC-FIT)  ENT EXCEEDS  ENT EXCEEDS  ENT EXCEEDS	OCT NOV DEC JAN FEB  82 e104 80 54 72 84 106 78 600 70 844 111 71 62 68 85 124 70 64 72 72 117 69 65 98  76 124 66 60 105 76 108 65 64 102 79 109 66 75 102 75 122 65 63 104 78 124 64 59 100 77 113 63 62 99 82 102 62 60 102 77 104 60 58 106 76 104 61 62 113 68 108 56 64 1101 76 104 61 62 113 68 108 56 64 114 64 103 56 59 115 78 80 61 59 115 83 78 80 61 59 113 83 78 63 60 128 82 72 67 61 137 82 73 65 62 124 80 74 64 62 122 85 74 62 62 116 83 80 62 64 109 89 87 54 67 106 86 101 58 72 106 86 101 58 72 106 86 101 58 72 106 86 101 58 72 106 86 101 58 74 62 62 116 87 88 80 62 64 109 89 87 54 67 106 86 101 58 72 106 86 101 58 72 106 86 101 58 72 106 86 101 58 72 106 86 101 58 72 106 87 79 124 80 75 137 88 70 106 89 87 54 67 106 80 101 58 72 101	OCT NOV DEC JAN FEB MAR  82 e104 80 54 72 100  84 1111 71 62 68 95  85 124 70 64 72 98  87 117 69 65 98 e202  76 124 66 60 105 e145  76 108 65 64 102 125  79 109 66 75 102 113  78 124 64 59 100 115  77 113 63 62 99 131  82 102 62 60 102 116  77 108 59 61 101 103  86 108 56 64 114 101  68 108 56 64 114 101  68 108 56 64 114 101  68 108 56 64 114 101  68 108 56 64 114 101  68 108 56 64 114 101  68 108 56 64 114 101  68 108 56 64 114 101  68 108 56 64 114 101  68 108 56 64 114 101  68 108 56 64 114 101  68 108 56 64 114 101  68 108 56 64 114 101  68 108 56 64 114 101  68 108 56 64 114 101  68 108 56 64 114 101  68 108 56 69 115 104  882 73 65 69 115 104  882 73 65 69 113 107  882 73 65 62 124 109  880 74 64 62 122 113  882 73 65 62 124 109  880 74 64 62 122 113  881 66 63 111 104  883 80 62 64 109 102  89 87 7 4 64 62 122 113  880 74 64 62 122 113  881 66 63 111 104  883 80 62 64 109 102  89 87 7 54 67 106 107  886 116 56 68 103 108  886 101 58 72 106 115  887 106 117  888 106 107  899 83 59 71 101  2,495 2,994 1,962 1,966 3,018 3,481  890 83 59 71 101  2,495 2,994 1,962 1,966 3,018 3,481  890 83 59 71 101  2,495 2,994 1,962 1,966 3,018 3,481  890 83 59 71 101  2,495 2,994 1,962 1,966 3,018 3,481  80.5 99,8 63,3 63,4 104 112  73.2 897 74.5 75.8 81,3 91.4  4,950 5,940 3,890 3,900 5,990 6,900  ICCS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2004, BY WATER YEARS 19	OCT NOV DEC JAN FEB MAR APR  82 e104 80 54 72 100 111  84 106 78 60 70 98 107  85 124 70 64 72 98 119  72 117 69 65 98 e202 89  76 124 66 60 105 e145 89  76 124 66 60 105 e145 89  76 108 65 64 102 125 79  79 109 66 75 102 113 1,000  75 122 65 63 104 114 201  78 124 64 59 100 115 228  77 113 63 62 99 131 223  82 102 62 60 102 116 190  77 108 59 61 101 103 123  82 102 62 60 102 116 190  77 108 59 61 101 103 123  86 104 61 62 113 104 111  68 108 56 64 114 101 106  64 103 56 59 115 104 194  68 108 56 64 114 101 106  64 103 56 59 115 104 94  88 80 61 59 115 104 94  88 80 61 59 115 104 94  88 80 61 59 115 104 94  88 80 61 105 113 107 89  88 80 61 63 111 107 238  88 9 74 64 62 122 113 104 111  88 80 74 64 62 122 113 238  88 74 64 62 122 113 238  88 75 44 67 106 107 207  89 87 54 67 61 110 102 216  89 87 54 67 106 107 207  80 88 116 56 68 103 108 156  86 101 58 74 62 62 116 110 9  77 124 80 74 64 62 122 113 238  85 74 62 62 116 110 9  77 124 80 74 64 62 122 113 238  85 77 68 16 66 63 111 104 217  88 9 87 54 67 61 137 109 77  89 87 54 67 61 137 109 77  80 87 54 67 60 115 137 109 77  80 87 54 67 60 115 137 109 77  80 87 54 67 60 115 137 109 77  80 87 54 67 60 115 137 109 77  80 87 54 67 60 115 137 109 77  80 87 54 67 60 115 137 109 77  80 87 54 67 106 107 207  80 87 54 67 106 107 207  80 87 54 67 106 107 207  80 87 54 67 106 107 207  80 87 54 67 106 107 207  80 87 54 67 106 107 207  80 87 54 67 106 107 207  80 87 54 67 106 107 207  80 89 87 54 67 106 308 3481 5,965  80 99 8 63 3 63 63 99 80 6900 11,830  ICOS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2004, BY WATER YEAR ANNUAL MEAN  ANNUAL MEAN  ANNUAL MEAN  ANNUAL MEAN  100 514 699 607 639 430  100 514 699 607 639 430  100 514 699 607 639 430  100 60 514 699 607 639 430  100 60 514 699 607 639 430  100 60 514 699 607 639 430  100 60 60 60 60 60 60 60 60 60 60 60 60 6	OCT         NOV         DEC         JAN         FEB         MAR         APR         MAY           82         e104         80         54         72         100         111         171         144         84         106         78         60         70         98         107         144         84         110         70         64         72         100         111         171         144         88         1214         70         64         72         98         95         376         118         85         124         70         64         72         98         e202         89         93         76         110         101         100         105         e145         89         90         76         160         108         65         64         102         125         79         97         79         109         66         75         102         113         1,000         103         75         122         65         63         104         114         201         101         77         113         63         62         99         131         223         72         82         102         126         66         102	WATER YEAR OCTIOBER 2003 TO SEPTEMBER 2004   DAILY MEAN VALUES	Note	Note   Date   Date

Estimated.

Also occurred Sep 30, 1939.

b From contracted-opening and slope-area measurement of peak flow.
c Site and datum then in use; maximum gage height, 12.06 ft, Apr 30, 1999, from floodmarks.

# ARKANSAS RIVER BASIN

# 07106300 FOUNTAIN CREEK NEAR PINON, CO

 $LOCATION.--Lat~38^{\circ}26'23", long~104^{\circ}35'35", in~NW^{1}/_{4}SE^{1}/_{4}~sec. 31, T.18~S., R.64~W., Pueblo~County, Hydrologic~Unit~11020003, on~right~bank~0.5~mi~below~Pinon~Road~bridge,~0.9~mi~northeast~of~Pinon,~and~2.7~mi~upstream~from~Steele~Hollow~Creek.$ 

DRAINAGE AREA.--849 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1973 to current year. Low-flow records may not be equivalent prior to October 1995, as a result of varying underflow (diversion system) entering between the sites. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07106300

REVISED RECORDS .-- WDR CO-80-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,990 ft above NGVD of 1929, from topographic map. Apr. 10, 1973 to Apr. 22, 1976, non-recording gage, and Apr. 23, 1976 to Sept. 30, 1995, water-stage recorder at site 0.5 mi upstream at different datum. Oct. 1, 1995 to present at various locations within 70 ft downstream from underflow mouth (see USGS Colorado Water Science Center office for location history).

REMARKS.--No estimated daily discharges. Records fair except for those above 500 ft<sup>3</sup>/s, which are poor. Natural flow of stream affected by storage reservoirs, power developments, ground-water withdrawals, transmountain diversions, diversions for irrigation and municipal use, return flows from irrigated areas, and flows from sewage-treatment plants.

					YEAR OC		ET PER SECC 3 TO SEPTEM VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	66 68 69 71 68	89 92 95 102 104	80 78 77 75 77	60 63 70 67 65	76 72 69 69 84	98 101 100 100 132	81 89 244 195 125	172 157 145 120 112	28 35 40 51 45	510 181 119 88 69	136 110 97 78 910	120 102 94 87 206
6 7 8 9 10	65 63 62 59 55	105 103 98 100 101	77 78 79 77 75	57 69 78 76 70	90 95 97 94 95	161 131 118 114 110	109 94 716 357 189	106 105 104 106 102	54 52 39 40 36	53 49 47 50 929	828 470 315 198 208	122 105 87 78 78
11 12 13 14 15	59 65 63 60 59	104 101 102 104 97	74 73 71 71 72	73 72 71 70 71	95 91 93 96 104	124 120 110 106 110	217 170 141 116 105	93 80 72 94 91	35 34 38 38 41	223 97 59 48 47	183 177 146 120 168	69 65 59 53 52
16 17 18 19 20	55 52 57 60 63	95 97 83 79 74	69 70 70 68 68	71 68 69 72 75	103 104 106 112 131	110 108 101 97 94	99 93 91 91 90	82 75 111 97 64	374 129 310 162 104	845 2,250 456 246 278	128 110 222 1,020 392	44 47 44 49
21 22 23 24 25	61 65 61 66 67	71 69 69 72 73	71 70 66 67 68	76 72 69 71 71	113 111 108 102 99	95 93 90 88 84	86 93 665 377 342	52 38 31 28 26	92 334 92 56 59	213 177 354 1,550 650	500 959 548 277 201	47 152 119 87 74
26 27 28 29 30 31	70 78 79 75 76 83	70 84 93 95 85	63 62 59 58 64 66	73 64 72 75 74 75	97 97 98 98 	85 86 89 90 88 78	345 191 149 144 174	31 31 29 27 27 26	86 253 1,490 231 146	369 211 175 219 181 149	158 146 350 206 164 139	70 65 66 69 64
TOTAL MEAN MAX MIN AC-FT	2,020 65.2 83 52 4,010	2,706 90.2 105 69 5,370	2,193 70.7 80 58 4,350	2,179 70.3 78 57 4,320	2,799 96.5 131 69 5,550	3,211 104 161 78 6,370	5,978 199 716 81 11,860	2,434 78.5 172 26 4,830	4,524 151 1,490 28 8,970	10,892 351 2,250 47 21,600	9,664 312 1,020 78 19,170	2,423 80.8 206 44 4,810
				OR WATER YE		,		` ′	100	116	157	70.5
MEAN MAX (WY) MIN (WY)	83.1 457 (1985) 0.81 (1976)	104 289 (1985) 5.77 (1979)	93.7 201 (2000) 30.0 (1977)	101 174 (1996) 19.0 (1979)	109 180 (2000) 35.2 (1978)	118 229 (1998) 20.0 (1978)	139 664 (1999) 3.36 (1975)	271 1,599 (1999) 0.96 (1975)	190 1,083 (1997) 8.39 (1978)	116 365 (1985) 4.34 (1976)	157 794 (1999) 3.87 (1974)	78.5 241 (1999) 0.00 (1975)
SUMMAI	RY STATIST	ΓICS		FOR 2003 CA	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 197	73 - 2004
LOWEST HIGHEST		MEAN EAN		34,234 93. 1,430 14	8 Jun Jul		51,02 13 2,25	9	1 17 v 25			1999 1978 pr 30, 1999 ul 6, 1973
ANNUAI MAXIMU MAXIMU ANNUAI 10 PERCI 50 PERCI		AY MINIMUM LOW ΓAGE AC-FT) DS DS	1	67,900 135 73 40	Jul		2 5,32 101,20 22 8	8 Ma 0 Ju 6.19 Ju		b19,1	0.00 A 100 A c9.80 A	ug 18, 1973 pr 30, 1999 pr 30, 1999

a No flow at times many years.
 b From rating curve extended above 9,590 ft<sup>3</sup>/s.

c From floodmark.

# 07106500 FOUNTAIN CREEK AT PUEBLO, CO

LOCATION.--Lat 38°17'16", long 104°36'02", in SE \(^1/4\)SW \(^1/4\) sec.19, T.20 S., R.64 W., Pueblo County, Hydrologic Unit 11020003, on left bank at upstream side of bridge on U.S. Highway 50 at Pueblo and 2.6 mi upstream from mouth.

DRAINAGE AREA.--926 mi<sup>2</sup>.

PERIOD OF RECORD.--January 1922 to September 1925, October 1940 to September 1965, February 1971 to current year. Monthly discharge only for some periods, published in WSP 1311. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07106500

REVISED RECORDS.--WDR CO-79-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 4,705 ft above NGVD of 1929, from topographic map. See WSP 1711 or 1731 for history of changes prior to Oct. 1, 1940, and WSP 1921 for changes Oct. 2, 1940 to Sept. 30, 1965. Feb. 1, 1971 to Sept. 30, 1976, water-stage recorder at site 1.4 mi upstream at datum 4,725.30 ft above sea level (unadjusted).

REMARKS.--Records fair except for estimated daily discharges and those above 1,000 ft<sup>3</sup>/s, which are poor. Natural flow of stream affected by storage reservoirs, power developments, ground-water withdrawals, transmountain diversions, diversions for irrigation and municipal use, return flows from irrigated areas, and flows from sewage-treatment plants.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of June 4, 1921, reached a discharge of 34,000 ft<sup>3</sup>/s, on basis of slope-area measurement of peak flow, gage height unknown. Flood of May 30, 1935, reached a discharge of 35,000 ft<sup>3</sup>/s, on basis of slope-area measurement of peak flow, gage height unknown.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES  DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	51 53 70 83 66	84 90 107 111 97	92 96 96 83 86	47 46 45 67 e70	66 59 53 45 77	80 96 91 119 157	98 111 252 267 98	269 175 118 126 106	21 27 34 40 41	450 191 149 72 55	131 133 134 132 789	165 134 96 96 164	
6 7 8 9 10	53 57 61 56 66	106 114 108 118 123	75 77 83 92 91	e64 e74 100 92 94	95 120 125 112 96	193 134 146 131 123	111 108 687 691 221	90 88 80 98 88	50 62 44 37 39	59 56 51 64 869	1,070 454 331 193 213	e110 109 80 72 82	
11 12 13 14 15	59 68 66 68 62	128 111 107 108 94	87 78 82 82 81	100 96 100 96 94	114 127 130 112 139	125 114 102 90 103	274 193 199 145 122	75 74 69 86 88	28 29 35 34 26	195 109 69 46 38	201 191 155 143 174	81 54 55 54 50	
16 17 18 19 20	56 52 51 53 66	93 96 89 76 68	76 61 73 72 81	95 106 89 80 72	126 116 121 143 172	119 114 108 99 100	103 100 91 95 91	82 68 93 109 78	264 235 297 166 107	383 2,380 481 279 272	125 127 222 1,330 480	46 47 49 52 49	
21 22 23 24 25	61 68 69 64 62	66 66 68 81 76	99 89 77 74 83	71 67 66 59 59	130 123 121 96 102	98 107 93 86 67	92 254 1,160 729 398	53 45 37 26 24	93 350 138 57 61	218 192 246 1,320 568	320 1,080 504 315 172	59 115 150 98 63	
26 27 28 29 30 31	54 95 112 104 86 94	72 80 101 96 85	76 80 79 82 93 64	51 58 61 61 70 67	99 93 84 89 	75 81 90 87 88 99	728 316 292 194 264	24 22 21 22 20 21	109 372 1,580 301 103	368 253 150 223 231 146	150 126 300 186 161 154	60 63 58 56 55	
TOTAL MEAN MAX MIN AC-FT	2,086 67.3 112 51 4,140	2,819 94.0 128 66 5,590	2,540 81.9 99 61 5,040	2,317 74.7 106 45 4,600 OR WATER Y	3,085 106 172 45 6,120	3,315 107 193 67 6,580	8,484 283 1,160 91 16,830	2,375 76.6 269 20 4,710	4,780 159 1,580 21 9,480	10,183 328 2,380 38 20,200	10,196 329 1,330 125 20,220	2,422 80.7 165 46 4,800	
MEAN MAX (WY) MIN (WY)	58.7 513 (1985) 0.61 (1963)	74.6 303 (1985) 0.90 (1955)	69.6 225 (2000) 1.10 (1955)	71.6 193 (2000) 1.90 (1954)	78.1 190 (2000) 1.40 (1954)	77.5 260 (2000) 1.00 (1954)	97.9 677 (1999) 1.10 (1955)	195 1,504 (1999) 0.28 (1950)	147 1,104 (1997) 0.71 (1963)	89.1 429 (1995) 0.96 (1964)	132 852 (1999) 0.71 (1960)	53.2 242 (1999) 0.37 (1978)	
SUMMAI	RY STATIST	TICS		FOR 2003 C.	ALENDAR `	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 192	22 - 2004	
LOWEST HIGHEST LOWEST	L MEAN Γ ANNUAL I Γ ANNUAL I Γ DAILY ME Γ DAILY ME	MEAN EAN	4	37,051 102 1,810 13 18	Jun Jul	9		19		11,4	a0.00 M	1999 1953 pr 30, 1999 ay 12, 1923 ep 9, 1945	
MAXIMU MAXIMU ANNUAI 10 PERCI 50 PERCI	JM PEAK FI JM PEAK ST L RUNOFF (A ENT EXCEE ENT EXCEE ENT EXCEE	LOW TAGE AC-FT) DS DS		73,490 145 83 42			4,88 108,30 26	80 Ju 6.98 Ju 00	y 20 1 17 1 17	70,4	000 Ji c19.00 Ji	un 17, 1965 un 17, 1965	

e Estimated.

No flow at times many years.

b From contracted-opening measurement of peak flow.
c From floodmarks, site and datum then in use.

#### 07108900 ST. CHARLES RIVER AT VINELAND, CO

LOCATION.--Lat 38°14′44", long 104°29′09", in NE $^1_4$ SW $^1_4$  sec.6, T.21 S., R.63 W., Pueblo County, Hydrologic Unit 11020002, on left bank at left downstream end of downstream bridge on U.S. Highway 50 Business, 1.6 mi west of Vineland, and 3.0 mi upstream from mouth.

DRAINAGE AREA.--474 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1978 to current year. Records for October 1967 to September 1974 (discharge measurements only prior to March 1968), published as St. Charles River near Vineland (station 07108800) at site 2.6 mi upstream, are not equivalent because of tributary inflow. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07108900

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Datum of gage is 4,581.58 ft above NGVD of 1929, (Colorado Division of Highways benchmark). Prior to May 10, 2001, on right bank at same datum.

REMARKS.—Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoir, diversions for irrigation and industrial use, ground-water withdrawals, and return flows from irrigated areas.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1901, 56,000 ft<sup>3</sup>/s, June 3, 1921, gage height unknown, at site 5.0 mi upstream.

					R YEAR OC		ET PER SECO TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	3.3 3.3 3.6 4.3 4.4	6.2 5.7 6.8 5.9 4.5	5.5 5.0 4.7 4.4 4.0	4.5 4.4 3.6 e4.2 e4.1	5.9 6.0 5.9 6.8 5.9	4.8 5.9 7.2 11 12	4.0 3.8 4.5 4.7 4.6	281 303 293 349 392	16 15 12 11 9.1	44 97 79 57 43	49 42 34 21 8.8	5.4 5.4 5.4 5.2 4.5
6 7 8 9 10	3.7 3.3 3.8 4.6 3.6	4.8 4.3 4.4 4.7 5.7	4.2 4.7 5.2 4.6 5.0	e4.0 e4.5 4.7 4.6 4.5	6.6 5.9 5.6 5.9 5.5	9.3 8.1 8.0 7.5 7.6	3.9 3.9 4.2 4.7	395 346 297 252 218	9.4 e6.2 e4.0 e3.6 3.0	18 8.6 7.1 6.0 6.1	25 25 22 63 52	4.5 4.4 4.1 3.9 3.8
11 12 13 14 15	3.4 3.8 3.7 3.2 3.5	3.5 3.5 5.3 5.5 3.7	4.1 4.4 4.3 4.3 3.9	4.6 4.5 4.5 4.3 4.7	5.8 e5.0 e5.0 5.0 4.3	8.8 8.7 8.9 7.7	21 17 15 12 36	179 153 160 157 142	2.5 2.0 2.0 1.7 2.4	6.0 4.0 3.2 2.9 2.6	18 11 9.2 8.5 8.4	3.6 3.5 3.8 3.8 3.6
16 17 18 19 20	3.4 4.0 3.2 3.4 3.8	3.5 4.3 5.3 5.8 5.7	e3.8 e4.2 4.7 4.5 4.3	4.7 4.6 4.8 5.4 5.1	5.6 5.5 5.9 6.5 6.6	8.4 6.1 4.6 4.7 4.6	90 84 80 80 57	115 103 107 105 99	2.7 3.8 8.1 8.0 5.6	3.7 178 33 17 11	8.1 7.7 8.0 21 14	3.6 3.5 3.3 3.5 3.1
21 22 23 24 25	3.5 3.2 3.7 4.4 3.9	4.7 e5.0 e4.8 e5.0 e5.5	4.3 4.4 4.5 e4.8 e5.0	5.8 4.5 4.5 5.4 5.6	5.7 5.6 5.4 6.0 5.7	4.8 5.4 4.9 3.7 3.3	46 46 58 42 119	96 82 60 53 49	5.4 6.4 5.1 4.3 3.8	8.7 7.7 7.3 12 88	14 13 13 9.9 8.6	3.2 3.9 3.2 3.4 3.2
26 27 28 29 30 31	4.4 4.6 4.6 5.1 5.8 6.0	e5.6 e5.6 e5.9 6.1 5.4	4.6 3.9 e4.6 e4.5 e5.0 4.3	e5.2 e4.8 e5.2 5.7 5.6 5.7	6.3 5.2 5.7 5.3	3.8 4.7 4.8 3.8 3.8 4.1	180 279 398 447 365	39 23 21 18 17 16	4.2 17 8.4 48 80	71 121 100 84 66 56	7.6 7.3 7.1 6.9 6.2 5.7	3.5 3.3 2.8 6.3 3.9
TOTAL MEAN MAX MIN AC-FT	122.5 3.95 6.0 3.2 243	152.7 5.09 6.8 3.5 303	139.7 4.51 5.5 3.8 277	148.3 4.78 5.8 3.6 294	166.1 5.73 6.8 4.3 329	205.0 6.61 14 3.3 407	2,528.3 84.3 447 3.8 5,010	4,920 159 395 16 9,760	310.7 10.4 80 1.7 616	1,248.9 40.3 178 2.6 2,480	555.0 17.9 63 5.7 1,100	118.6 3.95 6.3 2.8 235
						,	VATER YEAR	` ′				
MEAN MAX (WY) MIN (WY)	13.9 39.5 (1983) 3.50 (1979)	15.2 32.3 (1999) 4.26 (2003)	12.4 24.3 (1998) 4.51 (2004)	12.2 22.6 (1998) 4.78 (2004)	12.7 25.1 (1998) 3.82 (2003)	20.2 127 (1998) 4.24 (2003)	66.9 306 (1987) 4.99 (2002)	153 484 (1980) 3.17 (2002)	74.6 358 (1983) 2.09 (2002)	34.5 108 (1995) 1.82 (2002)	42.2 207 (1982) 2.02 (2002)	18.0 120 (1982) 3.51 (2003)
SUMMAR	RY STATIST	ICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 1979	9 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL	MEAN ANNUAL M ANNUAL M DAILY ME DAILY MEA SEVEN-DA M PEAK FL M PEAK ST RUNOFF (A	IEAN AN AN Y MINIMUM OW AGE AC-FT)	1	161 2 2 2 10,060	3.9 2.6 Jul 2.8 Aug	19	10,61 2 44 76 21,06	29.0 47 Ap 1.7 Jui 2.3 Jui 63 Ju 6.03 Ju	r 29 n 14 n 10 l 17 l 17	a7,5	0.25 Ar 0.69 Au 560 Au 512.70 Au	1987 2002 or 30, 1999 or 25, 1979 gg 16, 2002 gg 11, 1982 gg 11, 1982
10 PERCE 50 PERCE	ENT EXCEÈI ENT EXCEEI ENT EXCEEI	DS DS		43				5.5 3.5		-,-	83 13 5.5	

e Estimated.

a From rating curve extended above 1,750 ft<sup>3</sup>/s.

b Maximum gage height, 13.68 ft, Apr 30, 1999.

#### 07109500 ARKANSAS RIVER NEAR AVONDALE, CO

LOCATION.--Lat 38°14'53", long 104°23'55", in NE \( \frac{1}{4}\)SW \( \frac{1}\)SW \( \frac{1}{4}\)SW \( \frac{1}\)SW \( \frac{1}{4}\)SW \( \frac{1}{4}\)SW \( \frac{1}\)SW \( \frac{1}{4}\)SW \( \frac{1}{4}\)SW \( \frac{1}4\)SW \( \frac{1}4\ bridge on Nyberg Road, 0.3 mi upstream from Sixmile Creek, and 2.6 mi west of Avondale.

PERIOD OF RECORD.--May 1939 to September 1951, February 1965 to current year. Statistical summary computed for 1975 to current year, subsequent to partial regulation by Pueblo Reservoir. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07109500

REVISED RECORDS.--WSP 1087: 1942. WSP 1311: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 4,509.53 ft above sea level. Prior to Feb. 1, 1965, at site 550 ft downstream at datum 0.37 ft lower. Feb. 1, 1965 to Sept. 30, 1991, at datum 1.00 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are fair. Natural flow of stream affected by transbasin and transmountain diversions, storage reservoirs, power development, ground-water withdrawals, diversions for irrigation and municipal use, return flows from irrigated areas, and flows from sewage treatment plants. Flow partly regulated by Pueblo Reservoir (station 07099350) 21 mi upstream since Jan. 9, 1974.

#### DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES DAY OCT NOV DEC FEB JUN JUL AUG SEP JAN MAR APR MAY 1,200 1,120 223 783 217 e215 e210 e210 1.110 1 190 1,030 1,900 1.890 1,850 e355 1.860 e300 1,130 1,930 1.290 1.680 1.290 e308 1,320 1,190 1.070 1,040 1,060 2,510 222 229 234 1,350 1,300 1 370 1 4 1 0 1.080 1,270 1 220 1,110 1.080 23 1 350 1.090 e232 1.230 1.290 e228 1,170 1,730 1,060 1,610 1,110 27 277 217 223 e242 1.040 1.190 e240 1.070 1,330 e212 1,190 1,320 1,490 e210 1.210 1.160 1,080 1,140 ---8,902 TOTAL 7,400 8,209 6,996 7,138 11,168 20,758 32,041 35,315 28,039 19,715 7,316 237 1,034 MEAN 1,177 MAX 1,230 276 1,350 733 1.930 2.510 1.410 MIN 22,150 63,550 70,050 39,100 AC-FT 16,280 13.880 14,160 17,660 41,170 55,620 14,680 14.510 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2004, BY WATER YEAR (WY) MEAN 1.581 2.556 1.754 1.252 3,210 1,511 MAX 1,631 1,103 1,884 4,170 4,971 4,432 (1985)(1985)(1980)(WY) (1985)(1987)(1985)(1985)(1987)(1997)(1995)(1984)(1982)(2003) MIN (1979) (1978) (1978) (2002) 12Ó (2002)(2002) (1979)(2003)(WY) (2003)(2002)(2002)SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1975 - 2004 ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN 192,997 191,601 a935 1,626 LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN 4 960 Jun 3 2.510 Jul 17 12.300 May 1, 1999 7, 2002 Jan 20 Oct 2 b87 Sep Sep 3, 2002 ANNUAL SEVEN-DAY MINIMUM Sep 14 Jan 16 Apr 30, 1999 MAXIMUM PEAK FLOW 3,460 Jul 17 c20.900Apr 30, 1999 MAXIMUM PEAK STAGE 4.68 Jul 17 d10.60 677,600 380 000 382.800 ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 1.110 1,200 2,140 50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

Average discharge for 20 years (water years 1940-51, 1966-73), 867 ft<sup>3</sup>/s; 628,100 acre-ft/yr, prior to completion of Pueblo Dam. Minimum daily discharge for period of record, 50 ft<sup>3</sup>/s, Apr 2, 1940.

From rating curve extended above 11,500 ft<sup>3</sup>/s on basis of velocity-area study. Maximum discharge and stage for period of record, about 50,000 ft<sup>3</sup>/s, June 18, 1965, gage height, 9.77 ft, datum then in use, from rating curve extended above 6,700 ft<sup>3</sup>/s, on basis of records for station near Pueblo and indirect measurements of peak flow on Fountain Creek at Pueblo, Chico Creek near North Avondale, and Arkansas River near Avondale.

d From floodmark.

# 07116500 HUERFANO RIVER NEAR BOONE, CO

LOCATION.--Lat 38°13'30", long 104°15'37", in  $NE^{1}_{4}NE^{1}_{4}$  sec. 18, T.21 S., R.61 W., Pueblo County, Hydrologic Unit 11020006, at right upstream end of bridge on U.S. Highway 50, 0.8 mi upstream from mouth, and 1.6 mi south of Boone.

DRAINAGE AREA.--1,875 mi<sup>2</sup>.

PERIOD OF RECORD.--January 1922 to September 1925 (monthly and annual discharge only, published in WSP 1311 as "near Nepesta"), October 1979 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07116500

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gages. Datum of gage is 4,443.74 ft above NGVD of 1929. Jan. 1922 to Sept. 1925, at different datum.

REMARKS .-- No estimated daily discharges. Records fair. Natural flow of stream affected by storage reservoirs, diversions for irrigation, ground-water withdrawals, and return flows from irrigated areas.

return	nows nom n	inguica areas	•									
					DISCHARGE ER YEAR OC DAI		TO SEPTEN					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	161 171 167 161 211	8.5 7.4 8.5 11 8.8	2.1 0.84 0.00 0.00 0.00	25 19 20 20 14	1.8 1.6 1.4 1.3 0.97
6 7 8 9 10	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	306 277 269 290 303	8.8 8.9 8.5 6.2 4.3	0.00 0.00 0.00 0.00 0.00	14 13 10 9.8 14	0.47 0.20 0.00 0.04 0.00
11 12 13 14 15	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	305 271 251 238 156	3.2 2.6 1.8 1.5 1.2	0.00 0.00 0.00 0.00 0.00	12 9.0 7.3 6.0 6.1	0.00 0.00 0.00 0.00 0.00
16 17 18 19 20	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 13 7.5 8.6 5.6	0.00 0.00 0.00 0.00 0.00	33 123 209 208 190	1.0 1.2 1.7 2.1 1.6	0.00 200 535 181 80	5.3 4.4 5.3 98 31	0.00 0.00 0.00 0.00 0.00
21 22 23 24 25	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.09 0.00 0.00 0.00 0.00	0.00 0.00 1.8 7.6 29	190 155 87 28 21	1.4 1.4 0.39 0.00 0.00	59 49 51 68 92	17 11 7.2 3.9 3.4	0.00 0.00 0.56 4.8 4.6
26 27 28 29 30 31	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	60 38 54 28 80	17 15 14 12 11 9.6	0.40 0.51 8.5 3.4 2.2	51 56 40 34 39 36	2.9 2.7 2.9 2.6 2.2 1.9	4.3 3.8 3.4 13 7.8
TOTAL MEAN MAX MIN AC-FT	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	34.79 1.12 13 0.00 69	298.40 9.95 80 0.00 592	4,859.6 157 306 9.6 9,640	117.00 3.90 11 0.00 232	1,573.94 50.8 535 0.00 3,120	400.9 12.9 98 1.9 795	50.04 1.67 13 0.00 99
					YEARS 1980			, ,				
MEAN MAX (WY) MIN (WY)	9.33 46.7 (1985) 0.00 (1990)	15.0 46.0 (1986) 0.00 (1990)	14.3 40.2 (1998) 0.00 (1990)	18.9 65.1 (1984) 0.00 (1990)	21.8 65.2 (1998) 0.00 (2003)	19.7 129 (1984) 0.06 (2003)	30.5 224 (1998) 0.00 (2003)	144 1,113 (1987) 0.47 (2002)	88.8 667 (1983) 0.00 (2002)	24.3 226 (1995) 0.00 (1989)	26.4 254 (1981) 0.00 (2002)	5.67 26.5 (1995) 0.00 (1980)
SUMMAI	RY STATIST	TICS		FOR 2003	CALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 198	30 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCI		MEAN EAN AN AY MINIMUI LOW TAGE AC-FT) DS	М	2	7.71 0.68 2 Jun 0.00 Jan 0.00 Jan 0.07 0.07	1	5. b1,6 14,5.	0.00 Oct 0.00 Oct 70 Jul 12.04 Jul		2,9 c8,0 d 25,3	a0.00 O 0.00 O 030 Au 110.90 Au	1987 2003 aug 12, 1981 ct 1, 1979 ct 1, 1979 aug 12, 1981 ug 12, 1981
	ENT EXCEE				0.00			0.00			0.00	

a No flow on many days during most years.
 b From rating curve extended above 1,090 ft<sup>3</sup>/s.

From rating curve extended above 1,130 ft<sup>3</sup>/s. Maximum discharge for period of record, 19,400 ft<sup>3</sup>/s, Aug 1, 1923, from slope-area measurement of peak flow, gage height, 9.4 ft, datum then in use.

d From flood marks. Maximum gage height for period of record, 12.04 ft, Jul 18, 2004.

# 07119500 APISHAPA RIVER NEAR FOWLER, CO

LOCATION.--Lat 38°05′28", long 103°58′52", in SE  $^1$ /<sub>4</sub>NW  $^1$ /<sub>4</sub> sec.35, T.22 S., R.59 W., Otero Country, Hydrologic Unit 11020007, on left bank on downstream side of bridge on county road HH.5, 3.5 mi southeast of Fowler, and 5.4 mi upstream from mouth.

DRAINAGE AREA.--1,125 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1922 to September 1925, May 1939 to current year. Monthly discharge only for some periods, published in WSP 1311. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07119500

REVISED RECORDS.--WSP 957: 1939, 1941. WSP 1117: Drainage area. WSP 1241: 1923(M). WRD Colo. 1974: 1973(M).

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 4,317.05 ft above NGVD of 1929. See WSP 1711 or 1731 for history of changes prior to May 27, 1939. May 27, 1939 to July 30, 1940, at different datum. July 30, 1940 to Sept. 30, 1985, at site on right bank at datum 2.0 ft higher. Sept. 30, 1985 to July 2, 2002, at site on right bank at same datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by erosion-control and livestock-watering reservoirs, diversions for irrigation, ground-water withdrawals, return flows from irrigated areas, and waste-water flows from Oxford Farmers Co. and Rocky Ford Highline canals.

		YEAR OCT	TOBER 2003	TO SEPTEM					
IOV DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
3.3 3.0 3.6 3.0 3.4 3.0 2.9 3.0 2.9 3.0	2.8 2.7 2.6 2.6 2.6	2.4 2.4 2.4 2.4 2.4	2.1 2.0 2.0 2.0 2.1	2.3 2.6 3.2 3.0 3.0	24 33 25 16 20	2.6 4.9 3.1 5.7 2.2	119 18 13 12 10	16 7.8 5.7 7.8 5.3	7.3 5.2 e3.8 e3.4 e3.1
3.0 3.0 3.8 2.9 4.5 3.0 4.5 2.9 2.9 2.9	2.6 2.6 2.5 2.6 2.6	2.3 2.3 2.2 2.3 2.3	1.9 1.9 1.9 1.9 2.0	2.2 2.3 2.5 2.6 3.0	27 22 23 27 22	4.0 3.0 3.2 3.0 18	28 4.8 4.9 3.3 2.9	3.3 5.7 3.2 3.2 3.6	e3.0 e2.9 e2.8 e2.7 e2.7
3.0 2.8 3.0 2.6 3.3 2.5 2.9 2.5 8.0 2.5	2.6 2.6 2.6 2.6 2.6	2.4 2.4 2.2 2.2 2.2	2.0 2.0 2.0 2.1 4.3	2.7 2.7 3.1 2.6 2.7	14 12 9.8 8.1 6.2	8.9 11 10 8.6 9.5	2.8 4.0 4.2 2.7 2.8	4.1 4.2 2.8 2.8 2.8	e2.6 e2.6 e2.7 e2.8
3.1 2.5 3.1 2.5 3.1 2.5 3.1 2.4 3.2 2.4	2.6 2.5 2.5 2.5 2.5	2.1 2.1 2.1 2.3 2.3	5.1 24 4.6 2.8 2.6	2.9 2.9 23 30 3.6	8.3 11 7.6 9.3 8.8	9.0 4.9 4.0 8.8 20	3.8 4.3 599 78 20	3.8 3.1 4.0 12 12	e2.7 e2.9 e2.9 e3.1 e3.3
3.2 2.5 3.2 2.6 3.2 2.7 3.2 2.7 3.2 2.7	2.5 2.5 2.5 2.4 2.4	2.1 2.1 2.1 2.0 2.1	2.5 2.3 2.1 2.0 1.9	3.5 3.6 8.9 8.9 3.8	7.1 6.4 11 12 13	12 12 11 7.6 3.1	9.2 53 300 78 24	12 11 11 12 7.1	e3.5 e3.4 e3.4 e3.5 e3.5
3.2 2.7 3.2 2.7 3.2 2.7 3.1 2.7 3.0 2.8 2.8	2.6 2.4 2.4 2.4 2.4 2.4	1.9 2.0 2.1 2.1	1.9 2.0 2.0 1.9 2.1 2.2	3.7 3.6 3.8 3.9 5.1	9.4 4.4 12 11 15	87 45 22 14 13	14 14 12 194 27 19	8.9 4.7 6.9 6.0 6.7 6.5	e3.7 e3.8 e3.8 e4.0 e4.0
88.4 84.5 4.28 2.73 99 3.0 2.9 2.4 55 168	78.7 2.54 2.8 2.4 156	64.2 2.21 2.4 1.9 127	94.2 3.04 24 1.9 187	151.7 5.06 30 2.2 301	446.4 14.4 33 4.4 885	371.1 12.4 87 2.2 736	1,681.7 54.2 599 2.7 3,340	206.0 6.65 16 2.8 409	101.7 3.39 7.3 2.6 202
AY MEAN DATA FO 6.1 10.5 33.1 54.7 966) (1966) 0.90 1.33 940) (1955)	6.76 30.4 (1966) 2.29 (2003)	8.82 54.0 (1971) 1.85 (1976)	11.1 59.6 (1924) 1.35 (1955)	21.0 530 (1942) 0.94 (1955)	42.0 576 (1955) 1.65 (1975)	43.3 290 (1948) 1.13 (1954)	51.5 306 (1958) 1.53 (1974)	61.3 628 (1923) 1.56 (1974)	18.6 154 (1940) 1.07 (1956)
	FOR 2003 CA	ALENDAR Y	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 192	2 - 2004
N I INIMUM Γ)	7,360 5.	Jul 2 0 Feb 2 1 Mar	25	59 2,05 1 6,94	9.56  9 Ju 1.9 Fet 1.9 Ma 1.37 Ju 1.37 Ju 0 4 3.0	o 26 r = 6 l 18	10,1 10,1 a83,0 b 18,6	05 4.94 00 M: 0.00 F: 0.16 J: 00 A: 17.70 J 120 41 6.5	1942 2002 ay 19, 1955 bb 5, 1951 an 30, 1951 ag 22, 1923 ul 31, 1951
	3.3 3.0 3.0 3.6 3.0 3.4 3.0 2.9 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.8 2.9 4.5 3.0 4.5 2.9 2.9 2.9 3.0 2.8 3.0 2.6 3.3 2.5 9 2.5 8.0 2.5 3.1 2.5 3.1 2.5 3.1 2.5 3.1 2.5 3.1 2.7 3.2 2.7 3.1 2.5 4.28 2.73 3.9 3.0 2.8 8.4 84.5 4.28 2.73 9 3.0 2.8 4.28 2.73 9 3.0 2.9 2.4 5 168 Y MEAN DATA FG 6.1 10.5 3.1 54.7 9 9660 (1966) (1966) (1966) (1966) (1966) (1966) (1966) (1966) (1965) NIMUM	WATER  OV DEC JAN  3.3 3.0 2.8 3.6 3.0 2.7 3.4 3.0 2.6 2.9 3.0 2.6 2.9 3.0 2.6 3.0 3.0 2.6 3.8 2.9 2.6 4.5 3.0 2.5 4.5 2.9 2.6 3.0 2.6 2.9 2.6 3.0 2.6 2.6 3.1 2.5 2.6 3.1 2.5 2.6 3.1 2.5 2.6 3.1 2.5 2.6 3.1 2.5 2.6 3.1 2.5 2.5 3.2 2.4 2.5 3.2 2.4 2.5 3.2 2.4 2.5 3.2 2.7 2.4 3.2 2.7 2.4 3.2 2.7 2.4 3.2 2.7 2.4 3.1 2.7 2.4 3.0 2.8 2.4 3.1 2.7 2.4 3.0 2.8 2.4 3.1 2.7 2.4 3.0 2.8 2.4 5 168 156  Y MEAN DATA FOR WATER YI 6.1 10.5 6.76 3.1 54.7 30.4 966) (1966) (1966) 0.90 1.33 2.29 940) (1955) (2003)  FOR 2003 CA  FOR 2003 CA  FOR 2003 CA  SIMUM  7,360 SIMUMM  2.	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2.0 8.9 12 7.6 3.2 2.7 2.4 2.1 1.9 3.9 11 11 3.2 2.8 2.4 2.1 1.9 3.8 13 3.1 3.2 2.7 2.4 2.1 1.9 3.9 11 11 3.2 2.8 2.4 2.1 1.9 3.9 11 11 3.2 2.8 2.4 2.1 1.9 3.9 11 11 3.2 2.8 2.4 2.1 1.9 3.9 11 11 3.3 2.2 2.7 2.4 2.1 1.9 3.9 11 11 3.3 2.7 2.4 2.1 1.9 3.9 11 11 3.3 2.7 2.4 2.1 1.9 3.9 11 11 3.3 2.7 2.4 2.1 1.9 3.9 11 11 3.3 2.7 2.4 2.1 1.9 3.9 11 11 3.3 2.7 2.4 2.1 1.9 3.9 11 11 3.3 2.7 2.4 2.1 1.9 3.9 11 11 3.3 2.2 2.7 2.4 2.1 1.9 3.9 11 1.1 3.3 3.0 2.8 2.4 2.1 1.9 3.9 11 1.1 3.4 2.9 2.4 4.9 2.9 1.9 4.9 4.9 1.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4	OV DEC JAN FEB MAR APR MAY JUN JUL  3.3 3.0 2.8 2.4 2.1 2.3 24 2.6 119 3.4 3.0 2.6 2.4 2.0 3.2 25 3.1 13 2.9 3.0 2.6 2.4 2.0 3.0 16 5.7 12 2.9 3.0 2.6 2.4 2.0 3.0 2.5 3.1 13 3.0 3.0 2.6 2.4 2.0 3.0 2.5 3.1 13 3.0 3.0 2.6 2.4 2.0 3.0 2.5 3.1 13 3.0 3.0 2.6 2.4 2.0 3.0 16 5.7 12 3.0 3.0 3.0 2.6 2.4 2.1 3.0 20 2.2 10 3.0 3.0 3.0 2.6 2.3 1.9 2.2 2.7 4.0 28 3.8 2.9 2.6 2.3 1.9 2.2 2.7 4.0 28 4.5 3.0 2.5 2.2 1.9 2.5 23 3.2 4.9 4.5 2.9 2.6 2.3 1.9 2.3 22 3.0 4.8 4.5 3.0 2.5 2.2 1.9 2.5 23 3.2 4.9 4.5 2.9 2.6 2.3 1.9 2.6 2.7 3.0 3.3 3.0 2.6 2.3 1.9 2.6 2.7 3.0 3.3 3.0 2.6 2.2 1.9 2.5 23 3.2 4.9 4.5 2.9 2.6 2.3 2.0 3.0 22 18 2.9 2.9 2.9 2.6 2.3 1.9 2.6 2.7 14 8.9 2.8 3.0 2.6 2.6 2.4 2.0 2.7 14 8.9 2.8 3.0 2.6 2.6 2.4 2.0 2.7 12 11 4.0 4.0 3.3 2.5 2.6 2.2 2.1 2.6 8.1 8.6 2.7 8.0 2.5 2.6 2.2 2.1 2.6 8.1 8.6 2.7 8.0 2.5 2.6 2.2 2.1 2.6 8.1 8.6 2.7 8.0 2.5 2.6 2.2 2.1 2.6 8.1 8.6 2.7 8.0 2.5 2.6 2.2 2.1 2.6 8.1 8.6 2.7 8.0 2.5 2.6 2.2 2.1 2.6 8.1 8.6 2.7 8.0 2.5 2.5 2.5 2.1 2.4 2.9 11 4.9 4.9 4.8 3.1 2.5 2.5 2.5 2.1 2.4 2.9 2.1 4.9 2.9 11 4.9 4.9 4.3 3.1 2.5 2.5 2.5 2.1 2.4 6 2.3 2.9 11 4.9 4.9 4.3 3.1 2.5 2.5 2.5 2.1 2.4 6 2.3 3.0 9.3 8.8 78 3.1 2.5 2.5 2.5 2.1 2.4 6 2.3 3.0 9.3 8.8 78 3.1 2.5 2.5 2.5 2.1 2.4 6 2.3 3.0 9.3 8.8 78 3.1 2.5 2.5 2.5 2.1 2.4 6 2.3 3.0 9.3 8.8 78 3.1 2.5 2.5 2.5 2.1 2.4 6 2.3 3.0 9.3 8.8 78 3.1 2.5 2.5 2.6 2.1 2.1 2.1 8.9 11 11 300 3.2 2.4 2.5 2.3 2.8 30 9.3 8.8 78 3.2 2.4 2.5 2.3 2.8 30 9.3 8.8 78 3.2 2.7 2.4 2.0 2.0 8.9 12 7.6 78 3.2 2.7 2.4 2.0 2.0 8.9 12 7.6 78 3.2 2.7 2.4 2.0 2.0 8.9 12 7.6 78 3.2 2.7 2.4 2.0 2.0 3.6 4.4 4.5 14 3.2 2.7 2.4 2.0 2.0 3.8 12 2.2 2.2 3.1 2.7 2.4 2.0 2.0 3.8 12 2.2 2.2 3.1 2.7 2.4 2.0 2.0 3.8 12 2.2 2.2 3.1 2.7 2.4 2.0 2.0 3.6 4.4 4.5 14 3.2 2.7 2.4 2.1 1.9 3.9 11 11 14 194 3.2 2.7 2.4 2.1 1.9 3.9 11 1 14 194 3.2 2.7 2.4 2.1 1.9 3.9 11 1 14 194 3.2 2.7 2.4 2.1 1.9 3.9 11 1 14 194 3.2 2.7 2.4 2.1 1.9 3.9 11 1 14 194 3.2 2.7 2.4 2.1 1.9 3.9 11 1 14 194 3.2 2.7 2.4 2.1 1.9 3.9 11 1 14 194 3.2 2.7 2.4 2.1 1.9 3.9 11 1 14 194 3.2 2.7 2.4 2.1 1.9 3.9 11 1 14 194 3.0 2.	OV DEC JAN FEB MAR APR MAY JUN JUL AUG  3.3 3.0 2.8 2.4 2.1 2.3 24 2.6 119 16 3.4 3.0 2.7 2.4 2.0 2.6 33 4.9 18 7.8 3.4 3.0 2.6 2.4 2.0 3.2 25 3.1 13 5.7 2.9 3.0 2.6 2.4 2.0 3.0 16 5.7 12 7.8 2.9 3.0 2.6 2.4 2.1 3.0 20 2.2 10 5.3 3.8 2.9 2.6 2.3 1.9 2.2 27 4.0 28 3.3 3.8 2.9 2.6 2.3 1.9 2.3 22 3.0 4.8 5.7 4.5 3.0 2.5 2.2 1.9 2.5 23 3.2 49 3.2 2.9 2.9 2.6 2.3 1.9 2.3 22 3.0 4.8 5.7 4.5 2.9 2.6 2.3 1.9 2.6 2.7 3.0 3.3 3.2 2.9 2.9 2.6 2.3 1.9 2.6 2.7 3.0 3.3 3.3 3.0 2.6 2.6 2.4 2.0 3.0 22 18 2.9 3.0 2.6 2.4 2.0 3.0 22 18 2.9 3.0 2.6 2.6 2.3 1.9 2.6 2.7 3.0 3.3 3.3 3.0 2.6 2.6 2.3 1.9 2.6 2.7 3.0 3.3 3.3 3.0 2.6 2.6 2.3 1.9 2.6 2.7 3.0 3.3 3.3 3.2 2.9 2.9 2.6 2.3 1.9 2.6 2.7 14 8.9 2.8 41 3.0 2.5 2.6 2.2 2.0 3.1 9 2.6 27 3.0 4.4 3.3 2.5 2.6 2.2 2.0 3.1 9 2.6 2.7 12 11 40 4.2 3.3 2.5 2.6 2.2 2.0 3.1 9 2.6 2.7 12 11 40 4.2 3.3 2.5 2.6 2.2 2.0 3.1 9.8 10 4.2 2.8 8.0 2.5 2.6 2.2 2.0 3.1 9.8 10 4.2 2.8 8.0 2.5 2.6 2.2 2.1 2.6 8.1 8.6 2.7 2.8 8.0 2.5 2.6 2.2 2.1 2.6 8.1 8.6 2.7 2.8 8.0 2.5 2.6 2.2 2.1 2.6 8.1 8.6 2.7 2.8 8.0 2.5 2.5 2.6 2.2 2.1 2.6 8.1 8.6 2.7 2.8 8.0 2.5 2.5 2.5 2.1 44 2.9 11 4.9 4.3 3.1 3.1 2.5 2.5 2.5 2.1 44 2.9 11 4.9 4.3 3.1 3.1 2.5 2.5 2.5 2.1 44 2.9 11 4.9 4.3 3.1 3.1 2.5 2.5 2.5 2.1 4.6 2.3 7.6 4.0 599 4.0 3.1 2.4 2.5 2.3 2.8 30 9.3 8.8 78 12 3.2 2.4 2.5 2.3 2.8 30 9.3 8.8 78 12 3.2 2.7 2.4 2.1 1.9 3.8 13 3.1 24 7.1 3.2 2.7 2.4 2.1 1.9 3.8 13 3.1 24 7.1 3.2 2.7 2.4 2.1 1.9 3.8 13 3.1 24 7.1 3.2 2.7 2.4 2.1 1.9 3.8 13 3.1 24 7.1 3.2 2.7 2.4 2.1 1.9 3.8 13 3.1 24 7.4 3.2 2.7 2.4 2.1 1.9 3.9 11 14 194 6.0 3.0 2.8 2.4 2.2 2 11 1.9 4.9 4.3 3.1 3.1 2.7 2.4 2.1 1.9 3.9 11 14 194 6.0 3.0 2.8 2.4 2.4 1.9 1.9 3.7 9.9 1.1 14 194 6.0 3.0 2.8 2.4 2.1 1.9 3.9 11 14 194 6.0 3.0 2.8 2.4 2.1 1.9 3.9 11 14 194 6.0 3.0 2.8 2.4 2.1 1.9 3.9 11 14 194 6.0 3.0 2.8 2.4 2.1 1.9 3.9 11 14 194 6.0 3.0 2.8 2.4 2.1 1.9 3.9 11 14 194 6.0 3.0 2.8 2.4 2.1 1.9 3.9 11 14 194 6.0 3.0 2.8 2.4 2.1 1.9 1.9 3.7 194 8.7 194 194 6.0 3.0 2.8 2.4 2.1 1.9 1.9 3.9 11 18 194 194 6.0 3.0 2.8 2.4 2.2 1.9 1.9 1.9 2.2 4.4 2.2 2.7 2.8 194

a From slope-area measurement of peak flow at site 2 mi upstream from present site, caused by failure of Apishapa Dam 31 mi upstream. Site and datum then in use. Peak stage for flood of Aug 22, 1923, unknown.

#### 07119700 ARKANSAS RIVER AT CATLIN DAM NEAR FOWLER, CO

LOCATION.--Lat 38°07'33", long 103°54'41", in NE \(^1\_4\)NE \(^1\_4\) sec.20, T.22 S., R.58 W., Otero County, Hydrologic Unit 11020005, on right bank at Catlin Canal flume gage, 2.2 mi downstream from diversion dam for Catlin Canal, 2.3 mi downstream from Apishapa River, and 6.0 mi east of Fowler.

DRAINAGE AREA.--10,901 mi<sup>2</sup>, of which 54 mi<sup>2</sup> is probably noncontributing.

PERIOD OF RECORD.--October 1964 to current year. Statistical summary computed for 1975 to current year, subsequent to completion of Pueblo Reservoir. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07119700

GAGE.--Water-stage recorder with satellite telemetry on river; water-stage recorder with satellite telemetry and Parshall flume on Catlin Canal. Datum of gage on river is 4,245.92 ft and on canal is 4,257.87 ft above NGVD of 1929. Prior to May 13, 1971, gage on river at site 2.2 mi upstream at datum 24.08 ft higher, and gage on canal at site 1.7 mi upstream at datum 3.26 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Discharge computed by combining discharge of river downstream from canal with that of Catlin Canal. Natural flow of stream affected by storage reservoirs, power developments, transbasin and transmountain diversions, diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants. Flow partly regulated by Pueblo Reservoir (station 07099350) about 69 mi upstream since Jan. 9, 1974.

COOPERATION .-- Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

					YEAR OCT		ET PER SECO TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	181	30	26	25	25	315	1,070	970	1,110	699	269
2	73	202	31	23	e22	25	255	959	891	1,120	624	216
3	74	209	29	23	23	26	257	998	899	941	624	190
4	73	229	30	e23	25	28	315	972	927	749	623	196
5	78	e243	28	e22	29	32	411	936	897	649	632	199
6	100	e284	30	e22	e28	21	366	942	897	628	761	188
7	116	291	31	e26	e26	29	347	905	1,000	531	958	220
8	122	297	33	e26	e25	33	347	917	1,350	493	600	222
9	126	291	34	e28	e22	29	408	1,090	1,760	471	352	206
10	119	266	e34	e28	e20	29	746	1,070	1,710	423	390	207
11	118	267	e32	30	e22	28	630	1,070	1,640	541	501	176
12	105	284	e30	30	e22	31	644	1,170	1,710	519	371	151
13	104	286	e30	e28	e21	43	603	1,370	1,690	362	332	126
14	99	303	e32	e28	e20	28	545	1,500	1,420	324	297	133
15	98	307	e34	29	e23	91	427	1,480	1,050	312	440	117
16	100	80	e34	29	e28	383	445	1,200	752	301	448	116
17	101	49	e33	28	33	366	469	1,040	982	709	406	114
18	101	29	e32	28	30	355	402	1,220	1,080	3,300	276	105
19	100	25	e34	27	26	285	373	1,170	1,230	921	645	101
20	101	28	e32	28	29	349	311	1,160	1,260	660	1,380	101
21	102	36	e32	29	24	405	293	1,230	1,130	946	474	96
22	100	33	29	29	24	422	280	1,480	947	973	391	129
23	111	e30	26	e29	23	424	571	1,510	723	1,170	840	143
24	125	e25	e28	e29	24	316	1,380	1,270	674	1,020	605	191
25	136	e30	e30	e30	24	280	1,060	1,000	604	1,560	484	204
26 27 28 29 30 31	153 159 175 162 164 170	e35 e40 e35 e40 38	e30 e22 e22 e25 e28 e32	e28 e26 e27 e30 e29 26	24 23 23 26	274 307 327 330 337 332	894 1,020 933 1,070 1,110	969 1,120 1,310 1,270 1,110 992	591 622 1,070 1,320 796	1,130 1,020 911 936 755 780	420 425 423 379 376 327	207 175 151 167 195
TOTAL	3,534	4,493	937	844	714	5,990	17,227	35,500	32,592	26,265	16,503	5,011
MEAN	114	150	30.2	27.2	24.6	193	574	1,145	1,086	847	532	167
MAX	175	307	34	30	33	424	1,380	1,510	1,760	3,300	1,380	269
MIN	69	25	22	22	20	21	255	905	591	301	276	96
AC-FT	7,010	8,910	1,860	1,670	1,420	11,880	34,170	70,410	64,650	52,100	32,730	9,940
				WATER YEAR								
MEAN	391	426	373	395	364	404	598	1,262	2,006	1,300	949	421
MAX	1,234	925	804	854	1,249	912	1,526	3,901	4,420	4,108	2,384	1,209
(WY)	(1985)	(1985)	(2000)	(1985)	(1985)	(1998)	(1987)	(1999)	(1995)	(1995)	(1984)	(1982)
MIN	90.8	119	30.2	27.2	24.6	161	86.6	212	280	176	25.2	34.7
(WY)	(2003)	(2003)	(2004)	(2004)	(2004)	(2003)	(1978)	(1981)	(2002)	(2002)	(2002)	(2002)
SUMMAR	Y STATISTIC	CS		FOR 2003 CA	ALENDAR Y	EAR	FOR 200	4 WATER Y	EAR	WATER	R YEARS 1975	5 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE	MEAN ANNUAL MI ANNUAL MI DAILY MEA DAILY MEA SEVEN-DAY M PEAK FLO M PEAK STA RUNOFF (AC NT EXCEED	EAN N N MINIMUM W GE C-FT) S		127,860 350 3,530 15 26 253,600 1,020	Jun Mar Jan 2	13	296,80 1,10	9 Ju 0 Feb 1 Feb 0 Ju 5.99 Ju 0		e,b16, e,d,f26, 537,	c0.00 Se 1.2 Se 000 Ma g11.30 Ma 900 600	1995 2002 ny 1, 1999 pp 11, 2002 pp 5, 2002 ny 1, 1999 ny 1, 1999
	NT EXCEED NT EXCEED			155 29			22 2	6			447 160	

Estimated.

Average discharge for 9 years (water years 1965-73), 636 ft<sup>3</sup>/s, 460,800 acre-ft/yr, prior to completion of Pueblo Dam.

Maximum daily discharge for period of record, 18,300 ft<sup>3</sup>/s, Jun 18, 1965. Also minimum daily discharge for period of record. Maximum combined instantaneous discharge.

Maximum discharge and gage height for period of record, 43,200 ft<sup>3</sup>/s, Jun 18, 1965, gage height, 7.95 ft, site and datum then in use, from rating curve extended above 13,000 ft<sup>3</sup>/s on basis of flow-over-dam computation of peak flow.

Gage height at Arkansas River gage.

# 07121500 TIMPAS CREEK AT MOUTH NEAR SWINK, CO

 $LOCATION.--Lat~38^{\circ}00'11", long~103^{\circ}39'20", in~NW^{1}_{4}Sw^{1}_{2} sec.35, T.23~S., R.56~W., Otero~County, \\ Hydrologic~Unit~11020005, on~right~bank~at~downstream~side~of~23rd~Rd.~bridge,~1.7~mi~southwest~of~Swink,~and~2.9~mi~upstream~from~mouth.$ 

PERIOD OF RECORD.--January 1922 to September 1925, March 1968 to current year. Monthly discharge only for some periods, published in WSP 1311. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07121500

REVISED RECORDS .-- WDR CO 76-1: 1975.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,120 ft above NGVD of 1929, from topographic map. Jan. 1922 to Sept. 1925 at several sites downstream at different datum. Mar. 1968 to May 29, 1975, at site 140 ft downstream at datum 0.13 ft lower. May 30, 1975 to Nov. 25, 1980, at site on left bank at same

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by erosion-control and livestock-watering reservoirs, diversions for irrigation, ground-water withdrawals, and return flows from irrigated areas and from Catlin and Rocky Ford Highline Canals.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1922, 21,400 ft<sup>3</sup>/s, June 17, 1965, gage height unknown.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES  DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	32 31 32 32 35	28 11 11 12 9.8	4.8 5.0 4.9 4.9 4.6	5.0 5.0 5.0 5.0 5.0	5.7 5.7 5.5 5.5 5.4	5.9 6.0 6.5 8.8	44 24 24 24 23	75 72 68 67 62	56 54 57 64 59	75 80 87 84 78	72 68 65 75 77	77 68 55 44 35		
6 7 8 9 10	34 33 33 33 33	8.0 11 21 35 30	4.8 5.0 5.2 5.4 5.3	5.2 5.4 5.3 5.0 5.0	5.6 5.7 5.7 5.7 5.7	9.0 7.7 7.2 6.4 6.5	23 23 24 30 49	64 65 62 61 61	59 56 54 54 60	104 86 100 86 79	71 68 70 70 65	43 32 31 31 30		
11 12 13 14 15	33 34 33 36 37	9.0 9.2 7.8 23 62	5.4 5.4 5.4 5.4 5.2	5.0 4.9 4.8 4.7 4.9	6.0 5.9 6.0 5.9 5.8	6.5 6.6 6.7 6.7	64 60 57 57 53	60 61 66 74 72	56 57 55 53 54	76 79 56 27 24	69 84 94 94 69	32 31 30 31 30		
16 17 18 19 20	34 33 33 33 32	16 9.8 5.3 5.4 5.3	5.0 5.2 5.3 5.5 5.7	5.1 5.5 5.7 5.6 5.7	5.7 5.7 6.1 6.5 7.0	22 29 30 26 23	50 51 56 50 42	68 65 61 63 68	54 60 64 66 92	23 36 388 152 85	59 52 44 146 83	32 27 27 34 31		
21 22 23 24 25	30 29 30 29 30	5.2 5.3 5.4 5.6 5.8	5.7 5.9 5.6 5.4 5.4	5.7 5.7 5.7 5.7 5.8	7.5 8.6 6.8 6.6 6.1	19 18 18 17 17	28 31 51 70 73	68 67 70 62 56	76 72 69 65 59	69 110 245 97 98	51 95 75 71 80	27 35 33 29 27		
26 27 28 29 30 31	31 32 29 29 33 38	5.5 5.2 5.0 5.1 5.3	5.3 5.0 4.8 4.9 5.0 5.3	6.0 5.8 5.7 5.7 5.6 5.4	6.1 6.1 6.1 	18 18 25 23 25 46	72 67 64 69 75	58 56 53 56 63 58	87 89 132 110 114	104 98 78 64 69 68	79 81 96 93 81 84	28 24 26 26 25		
TOTAL MEAN MAX MIN AC-FT	1,006 32.5 38 29 2,000	383.0 12.8 62 5.0 760	161.7 5.22 5.9 4.6 321	165.6 5.34 6.0 4.7 328	176.8 6.10 8.6 5.4 351	492.5 15.9 46 5.9 977	1,428 47.6 75 23 2,830	1,982 63.9 75 53 3,930	2,057 68.6 132 53 4,080	2,905 93.7 388 23 5,760	2,381 76.8 146 44 4,720	1,031 34.4 77 24 2,040		
STATIST MEAN				R WATER Y 22.4	EARS 1922 - 29.4	- 2004, BY V 57.8	VATER YEAF 63.4	R (WY) 75.9	81.3	72.2	83.1	69.8		
MAX (WY) MIN (WY)	265 210 109 (1924) (1924) (1971) ( 9.21 12.8 5.22		60.4 (1923) 5.34 (2004)	84.6 (1924) 6.10 (2004)	201 (1924) 15.9 (2004)	170 (1924) 11.0 (1978)	187 (1995) 14.0 (1981)	318 (1923) 21.9 (2002)	73.3 200 (1923) 13.0 (2002)	401 (1923) 10.6 (2002)	159 (1986) 9.60 (2002)			
SUMMAI	RY STATIST	TCS		FOR 2003 C	CALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 192	22 - 2004		
SUMMARY STATISTICS ANNUAL MEAN HIGHEST ANNUAL MEAN HIGHEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS		1	26,430 77 32	5.5 Jun 4.6 Dec 4.9 Dec	5	38 89 1 28,11 7	38.7 38 Ju 4.6 Dec 4.9 Dec 07 Ju 10.24 Ju		2,6 a12,3 t 45,3	3.3 Au 4.9 Do 300 J 521.11 J	1923 2002 19 17, 1923 19 7, 1977 ec 1, 2003 10 110, 1978 ul 10, 1978			

a From contracted-opening measurement of peak flow.

b From floodmark.

#### 07123000 ARKANSAS RIVER AT LA JUNTA, CO

LOCATION.—Lat 37°59'26", long 103°31'55", in SE $^1$ /<sub>4</sub>NE $^1$ /<sub>4</sub> sec.2, T.24 S., R.55 W., Otero County, Hydrologic Unit 11020005, on right bank at upstream side of bridge on State Highway 109 in La Junta, and 450 ft upstream from King Arroyo.

DRAINAGE AREA.--12,210 mi<sup>2</sup>, of which 115 mi<sup>2</sup> is probably noncontributing.

PERIOD OF RECORD.—May to August 1889 and September 1893 to December 1895 (gage heights, discharge measurements, and flood data only), April to October 1903 and June to November 1908 (gage heights and discharge measurements only), April 1912 to current year. Monthly discharge only for some periods, published in WSP 1311. Published as "near La Junta" in 1903. Statistical summary computed for 1975 to current year subsequent to completion of Pueblo Dam. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07123000

REVISED RECORDS.--WSP 1341: Drainage area. WSP 1731: 1922.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 4,039.60 ft above NGVD of 1929. See WSP 1711 or 1731 for history of changes prior to June 13, 1940. June 13, 1940 to June 6, 1967, water-stage recorder at site 300 ft upstream at present datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, power developments, transbasin and transmountain diversions, diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants. Flow partly regulated by Pueblo Reservoir (station 07099350) about 82 mi upstream since Jan. 9, 1974.

COOPERATION .-- Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES  DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	58	5.9	69	63	65	61	49	143	552	106	258	83		
2	52	5.1	64	58	e55	53	24	141	504	243	292	59		
3	58	7.8	60	49	55	51	38	137	460	391	267	37		
4	61	7.4	61	e44	58	56	55	139	540	510	266	42		
5	58	5.8	63	e39	62	63	66	139	473	472	431	55		
6	57	5.2	61	e20	e58	64	64	137	431	439	218	50		
7	45	3.9	64	e25	e60	61	45	140	437	354	282	38		
8	32	13	64	e40	e60	56	49	134	538	251	241	39		
9	34	38	61	e45	e55	58	65	134	617	190	77	32		
10	25	32	56	e50	e55	57	92	135	709	154	66	25		
11	17	9.2	e57	e50	e50	58	82	173	557	121	62	23		
12	16	7.3	e64	e50	e40	59	78	334	574	217	64	21		
13	13	14	e75	e50	e35	58	68	429	673	167	57	17		
14	19	27	e82	e50	e45	61	64	640	591	124	46	15		
15	17	247	e90	53	e55	21	64	694	597	117	52	14		
16	14	255	e92	54	e75	13	56	683	521	109	131	14		
17	15	137	e87	52	e80	31	63	565	416	164	130	13		
18	14	104	e89	49	83	52	58	488	569	1,270	138	12		
19	15	89	e83	51	80	49	64	508	564	1,820	460	13		
20	14	83	e75	54	88	47	32	498	457	160	162	13		
21	15	e60	99	61	78	36	36	483	369	472	87	13		
22	15	75	105	e59	76	52	48	475	171	627	50	15		
23	15	e55	e70	e59	71	86	154	456	413	833	68	14		
24	10	e48	e60	59	66	91	358	452	377	387	48	13		
25	9.5	e56	e55	61	62	45	485	433	286	88	45	23		
26 27 28 29 30 31	11 9.3 15 16 10 6.3	e65 e70 e68 e70 75	e60 57 e43 e32 e42 e85	55 35 40 45 60 70	60 63 62 60 	45 47 53 66 57 49	490 404 277 143 143	448 481 622 777 814 625	216 220 369 291 237	226 328 654 526 461 383	71 184 190 171 137 120	31 20 21 14 13		
TOTAL	766.1	1,738.6	2,125	1,550	1,812	1,656	3,714	12,457	13,729	12,364	4,871	792		
MEAN	24.7	58.0	68.5	50.0	62.5	53.4	124	402	458	399	157	26.4		
MAX	61	255	105	70	88	91	490	814	709	1,820	460	83		
MIN	6.3	3.9	32	20	35	13	24	134	171	88	45	12		
AC-FT	1,520	3,450	4,210	3,070	3,590	3,280	7,370	24,710	27,230	24,520	9,660	1,570		
		THLY MEAN												
MEAN	157	121	117	156	147	106	130	551	855	496	308	115		
MAX	1,189	545	335	569	620	517	821	3,375	4,307	3,634	1,345	464		
(WY)	(1985)	(1987)	(1987)	(1998)	(1985)	(1998)	(1998)	(1999)	(1995)	(1995)	(1984)	(1982)		
MIN	8.82	4.21	13.5	9.50	6.37	19.6	6.67	15.1	20.0	21.0	19.1	9.59		
(WY)	(1978)	(1979)	(1976)	(1976)	(1976)	(1978)	(1978)	(2002)	(2002)	(2002)	(2002)	(1977)		
SUMMAF	RY STATISTI	CS	FOR 2003 CALENDAR YEAR					04 WATER Y	EAR	WATER	YEARS 1975	- 2004		
SUMMARY STATISTICS  ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS				Jun 3.9 Nov 5.9 Nov	5 7 1	114,20 47	20 Ju 3.9 Nov 5.9 Nov 10 Ju 10.48 Ju		e,b19,0 e,d30,0 197,2	c2.5 De 3.0 De 000 Ma f15.55 Ma	1995 2002 y 2, 1999 c 8, 1978 c 4, 1978 y 2, 1999 y 2, 1999			

e Estimated.

Average discharge for 61 years (water years 1913-73), 244 ft<sup>3</sup>/s; 176,800 acre-ft/yr, prior to completion of Pueblo Dam.

Maximum daily discharge for period of record, 61,100 ft<sup>3</sup>/s, Jun 4, 1921.

Also occurred Dec 9, 1978; minimum daily discharge for period of record, no flow, Jan 20-23 and Mar 20-23, 1915.

Peak discharge includes 7,600 ft<sup>3</sup>/s (estimated) that bypassed the main channel; maximum discharge for period of record, 200,000 ft<sup>3</sup>/s, Jun 4, 1921, from rating curve extended above 15,000 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow.

Gree height reflects the discharge flowing in the main channel; maximum gree height for period of record, 18.4 ft. Jun 4, 1921, site and datum then in use

Gage height reflects the discharge flowing in the main channel; maximum gage height for period of record, 18.4 ft, Jun 4, 1921, site and datum then in use.

#### 07124000 ARKANSAS RIVER AT LAS ANIMAS, CO

 $LOCATION.--Lat\ 38^{\circ}04'51",\ long\ 103^{\circ}13'09",\ in\ SE^{1}_{\sqrt{4}}NE^{1}_{\sqrt{4}}\ sec.3,\ T.23\ S.,\ R.52\ W.,\ Bent\ County,\ Hydrologic\ Unit\ 11020009,\ on\ right\ bank\ at\ upstream\ side\ of\ bridge\ on\ U.S.\ Highway\ 50,\ 1.1\ mi\ north\ of\ courthouse\ in\ Las\ Animas,\ and\ 4.2\ mi\ upstream\ from\ Purgatoire\ River.$ 

DRAINAGE AREA.--14,417 mi<sup>2</sup>, of which 441 mi<sup>2</sup> are probably noncontributing.

PERIOD OF RECORD.—May to November 1898 (gage heights only), August to November 1909 (gage heights and discharge measurements only), May 1939 to current year. Statistical summary computed for 1975 to current year, subsequent to partial regulation by Pueblo Reservoir. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07124000

REVISED RECORDS.--WSP 1341: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 3,883.97 ft above NGVD of 1929. May 13 to Nov. 12, 1898, and Aug. 1 to Nov. 10, 1909, nonrecording gages near present site at different datums. May 23, 1939 to Apr. 27, 1967, water-stage recorder at site 0.4 mi downstream at datum 9.00 ft lower.

REMARKS.—Records good except for estimated daily discharges and those above 1,000 cfs, which are poor. Natural flow of stream affected by storage reservoirs, power developments, transbasin and transmountain diversions, diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants. Flow partly regulated by Pueblo Reservoir (station 07099350) about 104 mi upstream since Jan. 9, 1974.

					YEAR OC	, CUBIC FEE TOBER 2003 LY MEAN V	TO SEPTEM					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	43 43 42 42 42	15 12 12 12 11	90 86 82 79 77	98 89 83 78 69	80 74 68 67 69	65 63 59 61 62	10 12 13 12 13	116 105 97 87 81	491 487 444 441 472	201 201 280 377 423	334 295 320 302 502	143 115 92 74 64
6 7 8 9 10	40 33 28 25 31	e10 e10 e10 e10	75 76 78 76 74	37 45 62 74 91	67 63 66 66 61	62 60 59 59 59	14 13 12 12 e13	75 70 67 62 57	418 382 383 473 540	399 357 291 226 190	385 307 339 270 175	62 55 46 41 36
11 12 13 14 15	27 24 21 20 22	11 11 11 11 27	71 72 60 69 108	95 85 80 75 73	62 52 41 61 85	57 54 56 55 41	e14 14 13 13 12	55 79 197 304 451	503 479 522 539 511	172 157 205 170 139	153 132 120 104 91	32 29 26 24 23
16 17 18 19 20	23 22 22 22 22 22	120 145 135 115 96	91 80 97 101 98	73 72 69 68 69	104 106 101 96 97	23 20 18 17 15	12 11 11 11 11	483 485 415 414 409	521 460 467 516 532	132 124 123 653 363	88 147 179 1,560 963	23 23 22 22 22
21 22 23 24 25	21 20 21 15 14	86 82 70 54 76	96 107 107 93 87	73 73 71 69 71	96 90 84 78 73	14 14 14 15 13	11 13 22 81 200	413 384 382 368 384	506 366 304 378 367	267 414 511 518 232	1,160 495 366 250 184	21 21 20 20 19
26 27 28 29 30 31	16 17 19 21 20 17	102 120 108 95 92	85 84 74 59 71 83	71 44 49 62 87 84	73 71 70 66 	12 12 11 11 11 10	311 290 261 174 122	378 389 415 522 570 586	313 258 314 355 330	144 222 373 479 406 393	146 153 212 215 189 166	19 19 19 18 18
TOTAL MEAN MAX MIN MED AC-FT	795 25.6 43 14 22 1,580	1,679 56.0 145 10 41 3,330	2,586 83.4 108 59 82 5,130	2,239 72.2 98 37 73 4,440	2,187 75.4 106 41 71 4,340	1,102 35.5 65 10 23 2,190	1,731 57.7 311 10 13 3,430	8,900 287 586 55 378 17,650	13,072 436 540 258 463 25,930	9,142 295 653 123 267 18,130	10,302 332 1,560 88 215 20,430	1,168 38.9 143 18 23 2,320
STATIST	ICS OF MO	NTHLY MEA	N DATA FO	R WATER YI	EARS 1975	- 2004, BY W	ATER YEAR	R (WY)				
MEAN MAX (WY) MIN (WY)	AX 1,092 810 398 YY) (1985) (1998) (1998 IN 5.13 6.05 8.4			179 641 (1998) 8.45 (1978)	186 761 (1985) 18.5 (1978)	116 422 (1998) 9.44 (1975)	120 877 (1987) 10.8 (1978)	553 4,043 (1999) 14.1 (1981)	841 4,263 (1995) 16.8 (2002)	459 3,339 (1995) 10.0 (2002)	296 1,343 (1999) 14.5 (2002)	105 373 (1984) 9.12 (1977)
SUMMAR	Y STATISTI	CS		FOR 2003 C	ALENDAR Y	/EAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 197	5 - 2004
SUMMARY STATISTICS  ANNUAL MEAN HIGHEST ANNUAL MEAN HIGHEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			36,922 101 1,090 e10 10 73,230 225 55 14	Jun Nov Nov	6	2,70 108,90 41	50 Aug 0 Nov 0 Nov 0 Nov 90 Aug 9.11 Aug	g 19 v 6 v 5 g 19 g 19	b22,0 d32,0 198,	c3.0 No 4.1 Se 900 Ma f14.02 Ma	1995 2002 2wy 3, 1999 vy 30, 1974 pp 26, 1977 ay 2, 1999 ay 2, 1999	

Estimated.

Average discharge for 34 years (water years 1940-73), 203 ft<sup>3</sup>/s; 147,100 acre-ft/yr, prior to completion of Pueblo Dam.

Maximum daily discharge for period of record, 25,800 ft<sup>3</sup>/s, May 20, 1955.

Minimum daily discharge for period of record, 0.9 ft<sup>3</sup>/s, Jul 31, Aug 1 and 3, 1964.

From rating curve extended above 21,600 ft<sup>3</sup>/s; maximum discharge and stage for period of record, 44,000 ft<sup>3</sup>/s, May 20, 1955, gage height, 15.03 ft, from current-measurement and slope-area measurement of over-flow channel, site and datum then in use.

#### 07124200 PURGATOIRE RIVER AT MADRID, CO

LOCATION.--Lat 37°07'46", long 104°38'22", in SW1/4NE1/4 sec.35, T.33 S., R.65 W., Las Animas County, Hydrologic Unit 11020010, on left bank 70 ft downstream from county road bridge, 0.3 mi northeast of Madrid, 1.0 mi downstream from Burro Canyon, and 9 mi west of Trinidad.

DRAINAGE AREA.--505 mi<sup>2</sup>.

PERIOD OF RECORD.--March 1972 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site no=07124200

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Datum of gage is 6,261.61 ft above NGVD of 1929 (U.S. Army Corps of Engineers bench mark). REMARKS.--Records good except for July 17 to August 13, and estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs,

#### diversions for irrigation and municipal use, ground-water withdrawals, and return flows from irrigated areas. DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES DAY OCT NOV DEC JAN **FEB** MAR APR MAY JUN JUL AUG SEP e15 540 e16 e18 e15 e18 e15 e15 e16 1,490 e16 57 26 19 7 21 e17 e16 e18 e17 e17 e17 e17 e18 e18 e17 e19 e17 23 e20 e19 e14 e20 e19 2.12 e12 e19 e21 e14 e19 e15 22 e17 e18 e21 e16 22 29 23 e20 e15 26 37 e20e21 e15 e20 e15 e20 e17 e18 e21 e14 e14 e19 e13 e18 25 e14 e18 e23 e14 e18 \_\_\_ e15 e17 ------TOTAL 1,099 9,504 4,398 5,106 8,174 1,380 5,163 22.9 30 MEAN 35.5 23.8 18.4 17.0 18.6 46.0 MAX 1,490 MIN 1,420 1,130 1,050 10,240 10,130 16,210 2,740 AC-FT 2,180 1,070 1,410 18,850 8,720 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2004, BY WATER YEAR (WY) MEAN 29.9 20.6 18.5 19.2 20.7 49.2 55.4 78.5 39.2 37.2 55.9 MAX 40.3 36.6 (WY) (1983)(1999)(1984)(1984)(1983)(1987)(1987)(1999)(1983)(1983)(1981)(1981)9 72 MIN 9 89 12 7 8 47 7.60 5.80 11.014 4 9.51 12.5 8 12 11 Ô (1973)(1977)(1973)(1979)(2002)(1978)(WY) (1977)(1977)(2002)(2002)(2002)(2002)SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1972 - 2004 ANNUAL TOTAL 16,329.7 37,885 ANNUAL MEAN 44.7 68.8 HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN 13.0 HIGHEST DAILY MEAN LOWEST DAILY MEAN 7, 1981 7, 2002 Sep Feb 1,490 Aug 5 Dec 15 1,640 8.6 e12 1.4 Sep ANNUAL SEVEN-DAY MINIMUM 9.3 e14 Dec 26 Aug 26, 2002 2.8 MAXIMUM PEAK FLOW b14,300 Jul 20, 1976 a6,230 Aug MAXIMUM PEAK STAGE 7.12 c12.80 Jul 20, 1976 Aug 49.830 32,390 75.140 ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS

50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

e Estimated.

a From slope-area measurement of peak flow.

b From timed-drift measurement of peak flow.

c From floodmarks.

# 07124410 PURGATOIRE RIVER BELOW TRINIDAD LAKE, CO

 $LOCATION.--Lat~37^{\circ}08'38", long~104^{\circ}32'50", in~NE^{1}_{4}SW^{1}_{4}~sec. 27,~T.33~S.,~R.64~W.,~Las~Animas~County,~Hydrologic~Unit~11020010, on~left~bank~of~flip~bucket~outlet~500~ft~downstream~from~base~of~Trinidad~Dam,~0.8~mi~upstream~from~Santa~Fe~Railroad~bridge,~and~3.0~mi~southwest~of~courthouse~in~Trinidad.$ 

PERIOD OF RECORD.--December 1976 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=07124410

GAGE.--Water-stage recorder with satellite telemetry and concrete control. Datum of gage is 6,073.64 ft above NGVD of 1929 (levels by U.S. Army, Corps of Engineers). Supplementary water-stage recorder about 1,000 ft downstream at same datum, for use when flows exceed approximately 1,500 ft<sup>3</sup>/s.

REMARKS.--Records good except for Aug. 6-14 and those below 0.5 ft<sup>3</sup>/s, which are fair, and estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, diversions for irrigation and municipal use, ground-water withdrawals, and return flows from irrigated areas. Flow completely regulated by Trinidad Lake (station 07124400) immediately upstream since Aug. 19, 1977.

Timida	iu Lake (stati	011 07 124400,	) mimediater	· –		, CUBIC FE	ET PER SECO					
				WAIE		LY MEAN V	3 TO SEPTEM ALUES	IBER 2004				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	51 50 38 31 10	0.33 0.33 0.33 0.25 0.09	4.8 5.8 5.1 4.0 5.0	0.03 0.02 0.03 0.03 0.03	e0.01 e0.01 e0.01 e0.01	5.6 6.0 5.5 4.8 6.0	0.18 0.11 0.11 0.11 0.11	269 270 381 468 700	246 237 236 236 236	258 200 159 156 157	175 160 130 89 72	73 100 89 75 75
6 7 8 9 10	0.99 0.83 0.77 0.72 0.68	0.08 0.08 0.07 0.06 0.05	4.7 4.0 3.1 2.4 4.9	0.03 0.03 0.03 0.03 0.03	e0.01 e0.01 e0.01 e0.01 e0.01	6.8 6.0 4.9 4.8 6.1	0.11 0.11 0.13 0.11 0.11	606 408 398 395 360	236 233 232 231 249	172 177 152 140 142	692 1,030 1,150 977 626	74 73 72 72 89
11 12 13 14 15	0.72 0.68 0.65 0.55 0.44	0.01 0.01 0.01 2.4 2.6	6.2 5.3 5.3 5.1 4.6	0.03 0.03 0.03 0.03 0.03	e0.01 e0.01 e0.01 e0.01 e0.01	6.9 5.7 4.6 3.4 6.0	0.11 0.15 0.13 0.11 0.11	342 345 378 375 289	275 272 273 272 272	142 226 265 261 257	184 762 1,020 498 210	99 99 97 96 96
16 17 18 19 20	0.44 0.44 0.44 0.44	1.9 4.9 4.5 4.6 3.9	3.9 3.2 3.2 5.3 5.9	0.03 0.03 e0.03 e0.03 e0.03	e0.01 e0.01 e0.01 e0.01 e0.01	6.8 5.7 4.7 5.7 5.8	0.11 0.10 0.07 0.08 0.08	228 224 231 231 221	272 274 274 288 294	257 251 272 220 187	78 64 124 210 206	96 95 93 93 92
21 22 23 24 25	2.4 2.8 1.0 0.44 0.44	6.0 6.1 5.6 4.2 5.5	5.3 4.6 3.7 5.5 6.5	4.6     0.80     e0.01     1.6       3.7     0.09     e0.01     0.09       5.5     e0.03     0.12     0.80       6.5     e0.02     4.6     3.9       6.4     e0.01     8.0     4.0			0.06 13 9.0 0.14 0.11	215 214 213 233 247	295 198 133 127 100	187 151 132 132 163	177 240 268 268 234	92 93 93 93 88
26 27 28 29 30 31	0.40 0.36 0.34 0.34 0.36 0.38	4.8 4.1 3.8 3.3 2.5	6.4 5.7 5.5 4.1 4.2 1.9	e0.01 e0.01 e0.01 e0.01 e0.01 e0.01	8.0 6.3 4.9 4.9	4.0 2.9 2.5 0.92 0.20 0.18	0.11 0.11 91 269 270	246 248 252 254 254 254	85 85 197 256 256	379 482 322 234 344 251	134 110 110 110 89 73	85 86 86 85 92
TOTAL MEAN MAX MIN AC-FT	198.49 6.40 51 0.34 394	72.40 2.41 6.1 0.01 144	145.2 4.68 6.5 1.9 288	1.62 0.05 0.80 0.01 3.2	29.05 1.00 8.0 0.01 58	133.99 4.32 6.9 0.09 266	654.77 21.8 270 0.06 1,300	9,749 314 700 213 19,340	6,870 229 295 85 13,630	6,828 220 482 132 13,540	10,270 331 1,150 64 20,370	2,641 88.0 100 72 5,240
							VATER YEAR	, ,				
MEAN MAX (WY) MIN (WY)	22.0 96.0 (1984) 0.35 (1989)	5.18 25.9 (1984) 0.01 (1982)	2.43 11.9 (1979) 0.00 (1995)	2.47 14.7 (1977) 0.01 (1985)	2.93 13.1 (1977) 0.05 (2001)	2.94 17.8 (1977) 0.01 (1982)	29.7 106 (2000) 0.07 (1984)	166 375 (1994) 25.5 (1980)	200 614 (1983) 33.8 (2002)	170 306 (1983) 17.0 (2002)	150 331 (2004) 8.81 (2002)	111 283 (1984) 5.15 (1987)
SUMMAR	RY STATIST	TICS		FOR 2003 (	CALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 197	7 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL	MEAN ANNUAL M ANNUAL M DAILY ME DAILY ME SEVEN-DA M PEAK FL M PEAK ST RUNOFF (A	IEAN AN AN Y MINIMUN OW 'AGE AC-FT)	1	42	7.9 1 Sep 0.01 Nov 0.04 Nov	11		50 Au 0.01 No 0.01 Jau 50 Au 8.01 Au	g 8 v 11 n 26 g 6 g 6	1, b1, 53,	a0.00 Au 0.00 No 260 Au	1983 2002 g 8, 2004 g 20, 1977 v 18, 1979 g 6, 2004 g 6, 2004
	ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				5.7 0.46			5.7 0.03			8.5 0.04	

a No flow on many days during many years.
 b From rating curve extended above 1,160 ft<sup>3</sup>/s.

# 07126140 VAN BREMER ARROYO NEAR TYRONE, CO

 $LOCATION.--Lat\ 37^{\circ}23^{\circ}58^{\circ}, long\ 104^{\circ}06^{\circ}55^{\circ}, in\ SW^{1}{}_{\!\!\!/4}SW^{1}{}_{\!\!\!/4}, sec.27, T.30\ S., R.60\ W., Las\ Animas\ County,\ Hydrologic\ Unit\ 11020010,\ on\ Pinon\ Canyon\ Maneuver\ Site,\ on\ left\ bank\ 200\ ft\ downstream\ from\ military\ road\ at\ gas\ line\ crossing\ near\ Brown\ Sheep\ Camp,\ 6\ mi\ southeast\ of\ Tyrone,\ and\ 11\ mi\ upstream\ from\ mouth.$ 

DRAINAGE AREA.--132 mi<sup>2</sup>, of which 11.8 mi<sup>2</sup> is noncontributing.

PERIOD OF RECORD.--May 1985 to September 1998, October 1998 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07126140

REVISED RECORDS .-- WDR CO-01-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry, crest-stage gages, and V-notch sharp-crested weir. Elevation of gage is 5,310 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good except for Apr. 23, 25, and July 22, 28, which are poor. Natural flow of stream affected by storage reservoirs, erosion-control and livestock-watering reservoirs, diversions for irrigation, ground-water withdrawals, and return flows from irrigated areas.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 511 ft<sup>3</sup>/s, Aug. 23, 1986, from flow through culvert computation, gage height, 10.02 ft; maximum gage height, 11.64 ft, Aug. 3, 1998; no flow on many days during most years (some estimated).

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 138 ft<sup>3</sup>/s, July 22, gage height, 7.82 ft; no flow on many days.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00						0.00	0.00	0.00	0.00	0.00	0.00
2	0.00						0.00	0.00	0.00	0.00	0.00	0.00
3	0.00						0.00	0.00	0.00	0.00	0.00	0.00
4	0.00						0.00	0.00	0.00	0.00	0.00	0.00
5	0.00						0.00	0.00	0.00	0.00	0.00	0.00
6	0.00						0.00	0.00	0.00	0.00	0.00	0.00
7	0.00						0.00	0.00	0.00	0.00	0.00	0.00
8	0.00						0.00	0.00	0.00	0.00	0.00	0.00
9	0.00						0.00	0.00	0.00	0.00	0.00	0.00
10	0.00						0.00	0.00	0.00	0.00	0.00	0.00
11	0.00						0.00	0.00	0.00	0.00	0.00	0.00
12	0.00						0.00	0.00	0.00	0.00	0.00	0.00
13	0.00						0.00	0.00	0.00	0.00	0.00	0.00
14	0.00						0.00	0.00	0.00	0.00	0.00	0.00
15	0.00						0.00	0.00	0.00	0.00	0.00	0.00
16	0.00						0.00	0.00	0.00	0.00	0.00	0.00
17	0.00						0.00	0.00	0.00	0.00	0.00	0.00
18	0.00						0.00	0.00	0.00	0.00	0.00	0.00
19	0.00						0.00	0.00	0.00	0.00	0.00	0.00
20	0.00						0.00	0.00	0.00	0.00	0.00	0.00
21	0.00						0.00	0.00	0.00	0.00	0.00	0.00
22	0.00						0.00	0.00	0.00	16	0.00	0.00
23	0.00						0.07	0.00	0.00	13	0.00	0.00
24	0.00						0.54	0.00	0.00	2.5	0.00	0.00
25	0.00						0.16	0.00	0.00	2.2	0.00	0.00
26	0.00						0.00	0.00	0.00	1.2	0.00	0.00
27	0.00						0.00	0.00	0.00	0.40	0.00	0.00
28	0.00						0.00	0.00	0.00	0.06	0.00	0.00
29	0.00						0.00	0.00	0.00	0.00	0.00	0.00
30	0.00						0.00	0.00	0.00	0.00	0.00	0.00
31	0.00							0.00		0.00	0.00	
TOTAL	0.00						0.77	0.00	0.00	35.36	0.00	0.00
MEAN	0.00						0.03	0.00	0.00	1.14	0.00	0.00
MAX	0.00						0.54	0.00	0.00	16	0.00	0.00
MIN	0.00						0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00						1.5	0.00	0.00	70	0.00	0.00

# 07126200 VAN BREMER ARROYO NEAR MODEL, CO

LOCATION.--Lat 37°20′44", long 103°57′27", in SE $^1_4$ NE $^1_4$  sec.13, T.31 S., R.59 W., Las Animas County, Hydrologic Unit 11020010, on right bank 3 mi upstream from mouth, 16 mi east of Model, and 33 mi northeast of Trinidad.

DRAINAGE AREA.--175 mi<sup>2</sup>, of which 11.8 mi<sup>2</sup> is noncontributing.

PERIOD OF RECORD.--July 1966 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=07126200

REVISIONS.--WDR CO-84-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gages. Elevation of gage is 4,960 ft above NGVD of 1929, from topographic map.

REMARKS .-- No estimated daily discharges. Records poor. Natural flow of stream affected by erosion-control and livestock-watering reservoirs, diversions for irrigation, ground-water withdrawals, and return flows from irrigated areas.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	0.09 0.08 0.08 0.09 0.09	0.10 0.10 0.11 0.12 0.12	0.17 0.17 0.17 0.17 0.17	0.22 0.24 0.23 0.21 0.20	0.23 0.20 0.19 0.21 0.20	0.17 0.17 0.18 0.21 0.25	0.13 0.14 0.20 0.22 0.17	0.64 0.57 0.52 0.46 0.36	0.13 0.13 0.14 0.15 0.13	0.12 0.12 0.09 0.07 0.07	0.11 0.07 0.07 0.08 0.08	0.10 0.09 0.09 0.08 0.08		
6 7 8 9 10	0.09 0.09 0.08 0.08 0.08	0.12 0.12 0.12 0.12 0.13	0.17 0.20 0.20 0.20 0.18	0.17 0.17 0.19 0.19 0.19	0.19 0.19 0.19 0.18 0.18	0.20 0.17 0.17 0.17 0.17	0.16 0.17 0.24 0.30 0.50	0.33 0.29 0.21 0.19 0.18	0.11 0.10 0.09 0.11 0.09	0.07 0.07 0.07 0.08 0.06	0.08 0.07 0.08 0.07 0.08	0.07 0.06 0.06 0.05 0.05		
11 12 13 14 15	0.07 0.06 0.07 0.07 0.08	0.14 0.13 0.14 0.14 0.14	0.16 0.17 0.16 0.17 0.20	0.18 0.19 0.19 0.19 0.20	0.16 0.16 0.15 0.16 0.18	0.16 0.14 0.13 0.12 0.12	0.41 0.35 0.27 0.22 0.20	0.18 0.17 0.17 0.20 0.27	0.08 0.07 0.07 0.08 0.08	0.05 0.03 0.02 0.02 0.02	0.11 0.11 0.09 0.09 0.08	0.05 0.06 0.06 0.05 0.04		
16 17 18 19 20	0.07 0.08 0.08 0.08 0.08	0.15 0.15 0.14 0.14 0.16	0.19 0.17 0.18 0.17 0.18	0.20 0.19 0.18 0.16 0.17	0.17 0.16 0.18 0.23 0.36	0.11 0.11 0.12 0.12 0.12	0.19 0.15 0.14 0.15 0.15	0.25 0.23 0.20 0.18 0.18	0.09 0.10 0.11 0.18 0.15	0.03 0.13 0.13 0.08 0.07	0.07 0.07 0.06 0.20 0.12	0.04 0.04 0.04 0.04 0.06		
21 22 23 24 25	0.07 0.06 0.06 0.06 0.06	0.16 0.17 0.17 0.16 0.17	0.20 0.21 0.19 0.18 0.18	0.17 0.16 0.19 0.20 0.20	0.26 0.24 0.20 0.21 0.20	0.12 0.12 0.14 0.15 0.15	0.14 0.25 3.2 2.2 0.92	0.17 0.15 0.14 0.14 0.16	0.14 0.19 0.16 0.12 0.14	0.06 69 92 7.9 2.3	0.12 0.11 0.09 0.08 0.07	0.05 0.18 0.12 0.09 0.07		
26 27 28 29 30 31	0.06 0.07 0.09 0.10 0.10 0.09	0.16 0.17 0.16 0.17 0.18	0.19 0.19 0.16 0.18 0.18 0.21	0.21 0.18 0.18 0.20 0.22 0.22	0.20 0.20 0.20 0.18	0.15 0.14 0.17 0.16 0.14 0.14	0.56 0.48 0.40 0.41 0.70	0.16 0.16 0.15 0.13 0.13	0.18 0.15 0.14 0.14 0.12	0.87 0.46 0.38 0.25 0.18 0.14	0.06 0.08 0.13 0.11 0.11 0.12	0.06 0.06 0.05 0.05 0.05		
TOTAL MEAN MAX MIN AC-FT	2.41 0.08 0.10 0.06 4.8	4.26 0.14 0.18 0.10 8.4	5.62 0.18 0.21 0.16	5.99 0.19 0.24 0.16	5.76 0.20 0.36 0.15	4.69 0.15 0.25 0.11 9.3	13.72 0.46 3.2 0.13 27	7.40 0.24 0.64 0.13	3.67 0.12 0.19 0.07 7.3	174.94 5.64 92 0.02 347	2.87 0.09 0.20 0.06 5.7	1.99 0.07 0.18 0.04 3.9		
					YEARS 1966 0.20		WATER YEAD	` ′	1.04	2.00	7.50	1.71		
MEAN MAX (WY) MIN (WY)	1.21 16.0 (1986) 0.06 (1992)	0.20 0.74 (1998) 0.07 (1984)	0.17 0.32 (1998) 0.03 (1984)	0.18 0.43 (1973) 0.06 (1984)	0.20 0.59 (1987) 0.11 (1992)	0.18 0.40 (1973) 0.07 (1979)	0.19 0.73 (1973) 0.07 (2002)	2.59 30.1 (1981) 0.07 (2003)	1.84 20.6 (1969) 0.03 (1968)	3.90 36.4 (1977) 0.04 (1978)	7.58 104 (1981) 0.06 (2002)	1.71 9.89 (1972) 0.04 (1991)		
SUMMAI	RY STATIST	ΓICS		FOR 2003 (	CALENDAR	YEAR	FOR 200	04 WATER	YEAR	WATER	YEARS 196	66 - 2004		
ANNUAL HIGHEST LOWEST HIGHEST LOWEST ANNUAL	ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILLY MEAN LOWEST DAILLY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW			6	2.54 0.61 5 Jun 0.05 May 0.05 Jul			0.02 Jr 0.03 Jr	ıl 23 ıl 13 ıl 10	c6,2	a0.00 Jr 0.00 Jr	1981 2002 ay 30, 1981 un 7, 1968 un 7, 1968 ay 26, 1967		
MAXIMU ANNUAL 10 PERCE 50 PERCE	JM PEAK ST L RUNOFF ( ENT EXCEE ENT EXCEE ENT EXCEE	ΓAGE AC-FT) DS DS			1 0.20 0.14 0.06		,		ıl 22	ŕ		ay 26, 1967		

Also occurred Jun 8-13, 1968.

From rating curve extended above 134 ft<sup>3</sup>/s on basis of slope-area measurements of peak flow at gage heights 5.48 ft and 9.98 ft.
 From slope-area measurement of peak flow.
 From floodmarks. Maximum gage height, 9.98 ft, Aug 9, 1979, from floodmark.

# ARKANSAS RIVER BASIN

#### 07126300 PURGATOIRE RIVER NEAR THATCHER, CO

 $LOCATION.--Lat~37^{\circ}21'23'', long~103^{\circ}53'59'', in~NW^{1}/_{4}SW^{1}/_{4}~sec. 10, T.31~S., R.58~W., Las~Animas~County,~Hydrologic~Unit~11020010, on~right~bank~250~ft~downstream~from~county~road~bridge~at~gas~line~crossing,~1.2~mi~downstream~from~Van~Bremer~Arroyo,~and~18~mi~southeast~of~Thatcher.$ 

DRAINAGE AREA.--1,791 mi<sup>2</sup>, of which 11.8 mi<sup>2</sup> is noncontributing.

PERIOD OF RECORD.--July 1966 to current year. Statistical summary computed for 1976 to current year, subsequent to completion of Trinidad Reservoir. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/ inventory/?site\_no=07126300

REVISED RECORDS.--WDR CO-01-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gages. Elevation of gage is 4,790 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants. Peak flows regulated to some extent by Trinidad Lake (station 07124400) 52 mi upstream since January 1975.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of July 22, 1954 and May 19, 1955, reached stages of 26.7 and 25.2 ft, respectively, from floodmarks, discharges unknown. Flood of June 18, 1965, reached a stage of 23.5 ft, from floodmarks, discharge, 47,700 ft<sup>3</sup>/s.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES  DAY OCT NOV DEC IAN FEB MAR APR MAY IUN IUI. AUG SEP													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	5.2 3.1 6.6 9.7	5.6 5.9 6.3 6.4 6.5	e10 e10 e10 10	e13 e12 e11 e10 e10	e12 e13 e13 e12 e12	12 11 11 12 13	2.1 2.1 2.7 3.0	624 599 462 529 596	4.5 6.4 11 13 8.0	110 84 64 35 26	146 52 41 48 28	22 16 14 13 14		
6 7 8 9 10	7.9 11 10 8.9 7.8	7.7 7.0 8.1 8.0 7.9	10 10 11 e11 e11	9.4 e10 e10 e10 10	e12 e12 e12 e12 e11	13 13 12 11	11 7.8 5.9 6.6 8.2	647 748 480 409 339	11 12 11 11 9.7	18 22 18 40 26	108 566 601 737 777	16 21 17 14 11		
11 12 13 14 15	7.1 6.2 5.1 6.4 4.9	7.8 7.9 8.2 7.8 8.1	10 e10 e11 11 e11	e10 e10 e11 e11 e12	e11 e11 10 10 e12	11 10 10 9.8 9.6	33 38 29 20 21	234 197 194 229 215	11 13 17 34 35	50 48 35 18 10	450 392 580 1,010 447	9.7 8.7 11 10 13		
16 17 18 19 20	2.5 1.5 1.2 1.5 1.4	8.5 8.3 8.9 8.1 8.0	11 9.5 10 e10 e10	e11 e11 12 11	e13 e14 15 14 18	9.3 9.0 8.9 8.6 8.4	26 21 16 12 11	132 74 52 35 26	32 34 42 53 48	84 507 300 68 49	166 73 58 96 167	12 12 12 8.5 4.9		
21 22 23 24 25	1.4 1.4 1.7 1.6 1.5	8.3 9.2 e9.4 9.7 9.6	e10 e10 e10 11	11 17 7.5 9.3 16 7.4 10 15 7.2 e10 14 6.5		8.4 7.0 49 93 268	23 25 19 16 19	41 91 82 72 63	37 28 144 419 217	123 75 73 102 128	5.3 15 18 18 18			
26 27 28 29 30 31	1.6 1.6 2.1 4.1 4.9 5.3	e9.6 e9.9 10 9.7 e9.8	e11 e12 e11 e10 e11 e12	e9.5 14 4.6 8.9 13 3.5 9.7 12 3.4 11 11 2.9 11 2.4		314 646 809 512 522	21 18 12 9.2 7.7 5.5	101 58 275 157 423	91 184 322 199 90 156	126 76 46 40 35 28	18 18 18 18 21			
TOTAL MEAN MAX MIN AC-FT	146.2 4.72 11 1.2 290	246.2 8.21 10 5.6 488	325.5 10.5 12 9.5 646	328.8 10.6 13 8.9 652	379 13.1 18 10 752	269.0 8.68 13 2.2 534	3,514.8 117 809 2.1 6,970 VATER YEAR	6,996.4 226 748 5.5 13,880	1,779.6 59.3 423 4.5 3,530	3,499 113 507 10 6,940	7,395 239 1,010 28 14,670	427.1 14.2 22 4.9 847		
MEAN MAX (WY) MIN (WY)	31.9 84.0 (1986) 0.46 (2003)	30.5 66.4 (1999) 3.71 (1979)	27.4 44.3 (1987) 7.09 (2003)	26.8 43.2 (1988) 8.85 (2003)	28.6 53.3 (1987) 9.39 (2003)	35.8 143 (1998) 5.97 (1977)	84.6 467 (1983) 1.38 (1978)	129 592 (1987) 1.45 (2002)	88.9 764 (1983) 6.69 (1976)	83.0 547 (1981) 5.65 (2003)	133 910 (1981) 0.01 (2002)	56.7 302 (1981) 0.64 (1978)		
SUMMAI	RY STATIST	TCS		FOR 2003 C	CALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 197	76 - 2004		
SUMMARY STATISTICS  ANNUAL MEAN  HIGHEST ANNUAL MEAN  HIGHEST ANNUAL MEAN  HIGHEST DAILY MEAN  LOWEST DAILY MEAN  LOWEST DAILY MEAN  ANNUAL SEVEN-DAY MINIMUM  MAXIMUM PEAK FLOW  MAXIMUM PEAK STAGE  ANNUAL RUNOFF (AC-FT)  10 PERCENT EXCEEDS  90 PERCENT EXCEEDS		М	313 ( ( 15,244 45	3 Apr 0.00 Jul 0.00 Jul	10	1,01 c2,98 50,20	59.1 10 Aug 1.2 Oc 1.4 Oc 30 Jun 8.20 Jun 90	g 14 t 18 t 17 1 30 1 30	10, d42, 45,	b0.00 Ji 0.00 Ji 400 J	1981 1976 ful 3, 1981 un 28, 1976 un 28, 1976 ful 3, 1981 ul 3, 1981			

Average discharge for 10 years (water years 1967-76), 37.9 ft<sup>3</sup>/s, 27,460 acre-ft/yr, prior to completion of Trinidad Dam.

b No flow at times during many years.
 c From rating curve extended above 2,020 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow at gage height 12.25 ft.
 d From rating curve extended above 2,020 ft<sup>3</sup>/s on basis of slope-area measurements of peak flow at gage heights 12.25 ft and 23.50 ft.

# 07126325 TAYLOR ARROYO BELOW ROCK CROSSING NEAR THATCHER, CO

LOCATION.--Lat 37°25′27", long 103°55′11", in SE $^1$ / $_4$ SE $^1$ / $_4$ sec.17, T.30 S., R.58 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Maneuver Site, on left bank 2.0 mi downstream from Rock Crossing, 5 mi upstream from mouth, and 13.5 mi southeast of Thatcher.

DRAINAGE AREA.--48.4 mi<sup>2</sup>.

PERIOD OF RECORD.--March 1983 to September 1998, October 1998 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07126325

GAGE.--Water-stage recorder with satellite telemetry, concrete control, and crest-stage gages. Elevation of gage is 4,982 ft above NGVD of 1929, from topographic map.

REMARKS.—No estimated daily discharges. Records good except for June 25-26 and July 22, which are poor. Natural flow of stream affected by erosion-control and livestock-watering reservoirs.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,090 ft<sup>3</sup>/s, Sept. 30, 1998, gage height, 13.71 ft, from slope-area measurement of peak flow; no flow on most days.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 679 ft<sup>3</sup>/s, July 22, gage height, 7.73 ft; no flow on most days.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00						0.00	0.00	0.00	0.00	0.00	0.00
2	0.00						0.00	0.00	0.00	0.00	0.00	0.00
3	0.00						0.00	0.00	0.00	0.00	0.00	0.00
4	0.00						0.00	0.00	0.00	0.00	0.00	0.00
5	0.00						0.00	0.00	0.00	0.00	0.00	0.00
6	0.00						0.00	0.00	0.00	0.00	0.00	0.00
7	0.00						0.00	0.00	0.00	0.00	0.00	0.00
8	0.00						0.00	0.00	0.00	0.00	0.00	0.00
9	0.00						0.00	0.00	0.00	0.00	0.00	0.00
10	0.00						0.00	0.00	0.00	0.00	0.00	0.00
11	0.00						0.00	0.00	0.00	0.00	0.00	0.00
12	0.00						0.00	0.00	0.00	0.00	0.00	0.00
13	0.00						0.00	0.00	0.00	0.00	0.00	0.00
14	0.00						0.00	0.00	0.00	0.00	0.00	0.00
15	0.00						0.00	0.00	0.00	0.00	0.00	0.00
16	0.00						0.00	0.00	0.00	0.00	0.00	0.00
17	0.00						0.00	0.00	0.00	0.00	0.00	0.00
18	0.00						0.00	0.00	13	0.00	0.00	0.00
19	0.00						0.00	0.00	88	0.00	0.00	0.00
20	0.00						0.00	0.00	0.75	0.00	0.00	0.00
21	0.00						0.00	0.00	0.09	0.00	0.00	0.00
22	0.00						0.00	0.00	2.0	90	0.00	0.00
23	0.00						0.47	0.00	0.19	22	0.00	0.00
24	0.00						0.32	0.00	0.01	0.30	0.00	0.00
25	0.00						0.12	0.00	4.5	0.03	0.00	0.00
26	0.00						0.01	0.00	13	0.01	0.00	0.00
27	0.00						0.00	0.00	0.47	0.00	0.00	0.00
28	0.00						0.00	0.00	0.03	0.00	0.00	0.00
29	0.00						0.00	0.00	0.00	0.00	0.00	0.00
30	0.00						0.00	0.00	0.00	0.00	0.00	0.00
31	0.00							0.00		0.00	0.00	
TOTAL	0.00						0.92	0.00	122.04	112.34	0.00	0.00
MEAN	0.00						0.03	0.00	4.07	3.62	0.00	0.00
MAX	0.00						0.47	0.00	88	90	0.00	0.00
MIN	0.00						0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00						1.8	0.00	242	223	0.00	0.00

# 07126390 LOCKWOOD CANYON CREEK NEAR THATCHER, CO

LOCATION.--Lat 37°29'34", long 103°49'39", in SW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.30, T.29 S., R.57 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Maneuver Site, on left bank 0.8 mi downstream from Sharp Ranch, 5.3 mi upstream from mouth, and 16 mi southeast of Thatcher.

DRAINAGE AREA.--48.8 mi<sup>2</sup> (revised).

PERIOD OF RECORD.--April 1983 to September 1992, October 1992 to May 1999 (annual maximum only), May 1999 to current year (seasonal records only). Records prior to May 14, 1999, may not be equivalent because of difference in drainage area. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07126390

REVISED RECORDS.--WDR CO-86-1: 1983-84. WDR CO-97-1: 1987(M).

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gages. Elevation of gage is 4,785 ft above NGVD of 1929, from topographic map. April 1983 to May 2, 1989, at site 0.4 mile upstream at different datum. May 3, 1989 to May 13, 1999, at site 0.2 mile upstream at different datum.

REMARKS.--No estimated daily discharges. Records poor. Natural flow of stream affected by erosion-control and livestock-watering reservoirs.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,110 ft<sup>3</sup>/s, May 22, 1987, from slope-area measurement of peak flow, gage height, 10.39 ft, site and datum then in use, maximum gage height, 11.43 ft, June 25, 2004; no flow on most days.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 1,010 ft<sup>3</sup>/s, June 25, gage height, 11.43 ft. No flow on most days.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00						0.00	0.00	0.00	0.00	0.00	0.00
2	0.00						0.00	0.00	0.00	0.00	0.00	0.00
3	0.00						0.00	0.00	0.00	0.00	0.00	0.00
4	0.00						0.00	0.00	0.00	0.00	0.00	0.00
5	0.00						0.00	0.00	0.00	0.00	0.00	0.00
3	0.00						0.00	0.00	0.00	0.00	0.00	0.00
6	0.00						0.00	0.00	0.00	0.00	0.00	0.00
7	0.00						0.00	0.00	0.00	0.00	0.00	0.00
8	0.00						0.00	0.00	0.00	0.00	0.00	0.00
9	0.00						0.00	0.00	0.00	0.00	0.00	0.00
10	0.00						0.00	0.00	0.00	0.00	0.00	0.00
11	0.00						0.00	0.00	0.00	0.00	0.00	0.00
12	0.00						0.00	0.00	0.00	0.00	0.00	0.00
13	0.00						0.00	0.00	0.00	0.00	0.00	0.00
14	0.00						0.00	0.00	0.00	0.00	0.00	0.00
15	0.00						0.00	0.00	0.00	0.00	0.00	0.00
16	0.00						0.00	0.00	0.00	0.00	0.00	0.00
17	0.00						0.00	0.00	0.00	0.00	0.00	0.00
18	0.00						0.00	0.00	0.00	0.00	0.00	0.00
19	0.00						0.00	0.00	0.00	0.00	0.00	0.00
20	0.00						0.00	0.00	0.00	0.00	0.00	0.00
21	0.00						0.00	0.00	0.00	0.00	0.00	0.00
22	0.00						0.00	0.00	0.00	0.00	0.00	0.00
23	0.00						0.00	0.00	0.00	0.00	0.00	0.00
24	0.00						0.00	0.00	0.00	0.00	0.00	0.00
25	0.00						0.00	0.00	38	0.00	0.00	0.00
26	0.00						0.00	0.00	32	0.00	0.00	0.00
27	0.00						0.00	0.00	0.42	0.00	0.00	0.00
28	0.00						0.00	0.00	0.00	0.00	0.00	0.00
29	0.00						0.00	0.00	0.00	0.00	0.00	0.00
30	0.00						0.00	0.00	1.7	0.00	0.00	0.00
31	0.00							0.00		0.00	0.00	
TOTAL	0.00						0.00	0.00	72.12	0.00	0.00	0.00
MEAN	0.00						0.00	0.00	2.40	0.00	0.00	0.00
MAX	0.00						0.00	0.00	38	0.00	0.00	0.00
MIN	0.00						0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00						0.00	0.00	143	0.00	0.00	0.00

# 07126415 RED ROCK CANYON CREEK AT MOUTH NEAR THATCHER, CO

LOCATION.--Lat 37°30′55", long 103°43′30", Las Animas County, Hydrologic Unit 11020010, on left bank 200 ft downstream from Welsh Canyon Creek, 0.3 mi upstream from mouth, and 21 mi east of Thatcher.

DRAINAGE AREA.--48.9 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1983 to September 1990, October 1990 to April 2000 (annual maximum only), April 2000 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07126415

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gages. Elevation of gage is 4,510 ft above NGVD of 1929, from topographic map.

REMARKS .-- No estimated daily discharges. Records fair. Natural flow of stream affected by erosion-control and livestock-watering reservoirs.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,430 ft<sup>3</sup>/s, June 13, 2002, from slope-area measurement of peak flow, gage height, 11.46 ft, from floodmarks; no flow on many days, most years.

EXTREMES FOR CURRENT YEAR (seasonal only).---Maximum discharge, 170 ft<sup>3</sup>/s, June 25, gage height, 6.84 ft; no flow on most days.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00						0.00	0.00	0.00	0.00	0.00	0.00
2	0.00						0.00	0.00	0.00	0.00	0.00	0.00
3	0.00						0.00	0.00	0.00	0.00	0.00	0.00
4	0.00						0.00	0.00	0.00	0.00	0.00	0.00
5	0.00						0.00	0.00	0.00	0.00	0.00	0.00
6	0.00						0.00	0.00	0.00	0.00	0.00	0.00
7	0.00						0.00	0.00	0.00	0.00	0.00	0.00
8	0.00						0.00	0.00	0.00	0.00	0.00	0.00
9	0.00						0.00	0.00	0.00	0.00	0.00	0.00
10	0.00						0.00	0.00	0.00	0.00	0.00	0.00
11	0.00						0.00	0.00	0.00	0.00	0.00	0.00
12	0.00						0.00	0.00	0.00	0.00	0.00	0.00
13	0.00						0.00	0.00	0.00	0.00	0.00	0.00
14	0.00						0.00	0.00	0.00	0.00	0.00	0.00
15	0.00						0.00	0.00	0.00	0.00	0.00	0.00
16	0.00						0.00	0.00	0.00	0.00	0.00	0.00
17	0.00						0.00	0.00	0.00	0.00	0.00	0.00
18	0.00						0.00	0.00	0.00	0.00	0.00	0.00
19	0.00						0.00	0.00	0.00	0.00	0.00	0.00
20	0.00						0.00	0.00	0.00	0.00	0.00	0.00
21	0.00						0.00	0.00	0.00	0.00	0.00	0.00
22	0.00						0.00	0.00	0.00	0.00	0.00	0.00
23	0.00						2.0	0.00	0.00	0.00	0.00	0.00
24	0.00						0.00	0.00	0.00	0.00	0.00	0.00
25	0.00						0.00	0.00	13	0.00	0.00	0.00
26	0.00						0.00	0.00	13	0.00	0.00	0.00
27	0.00						0.00	0.00	0.00	0.00	0.00	0.00
28	0.00						0.00	0.00	0.00	0.00	0.00	0.00
29	0.00						0.00	0.00	0.00	0.00	0.00	0.00
30	0.00						0.00	0.00	0.00	0.00	0.00	0.00
31	0.00							0.00		0.00	0.00	
TOTAL	0.00						2.00	0.00	26.00	0.00	0.00	0.00
MEAN	0.00						0.07	0.00	0.87	0.00	0.00	0.00
MAX	0.00						2.0	0.00	13	0.00	0.00	0.00
MIN	0.00						0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00						4.0	0.00	52	0.00	0.00	0.00

# ARKANSAS RIVER BASIN 07126480 BENT CANYON CREEK AT MOUTH NEAR TIMPAS, CO

LOCATION.--Lat 37°35′21", long 103°38′52", in SE  $^1$ /<sub>4</sub>SE  $^1$ /<sub>4</sub>sec.23, T.28 S., R.65 W., Las Animas County, Hydrologic Unit 11020010, on Comanche National Grassland, on left bank 0.5 mi upstream from mouth, 0.6 mi southwest of Rourke Ranch house, 0.9 mi upstream from Iron Canyon, and 17 mi southeast of Timpas.

DRAINAGE AREA.--56.2 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1983 to September 1990, October 1990 to May 2000 (annual maximum only), June 2000 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07126480

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gages. Elevation of gage is 4,402 ft above NGVD of 1929, from topographic map.

REMARKS .-- No estimated daily discharges. Records poor. Natural flow of stream affected by erosion-control and livestock-watering reservoirs.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,640 ft<sup>3</sup>/s, Aug. 21, 1984, from slope-area measurement of peak flow, gage height, 12.56 feet, from floodmark; no flow on many days, during most years.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 391 ft<sup>3</sup>/s, June 25, gage height, 7.88 ft, from floodmarks, from rating curve extended above 0.50 ft<sup>3</sup>/s on the basis of step-backwater analysis of flow and slope-area measurements of peak flow at gage heights 4.67 ft, 8.70 ft, 8.93 ft, 11.61 ft, and 12.56 ft; no flow on most days

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00						0.00	0.00	0.00	0.00	0.00	0.00
2	0.00						0.00	0.00	0.00	0.00	0.00	0.00
3	0.00						0.00	0.00	0.00	0.00	0.00	0.00
4	0.00						0.00	0.00	0.00	0.00	0.00	0.00
5	0.00						0.00	0.00	0.00	0.00	0.00	0.00
6	0.00						0.00	0.00	0.00	0.00	0.00	0.00
7	0.00						0.00	0.00	0.00	0.00	0.00	0.00
8	0.00						0.00	0.00	0.00	0.00	0.00	0.00
9	0.00						0.00	0.00	0.00	0.00	0.00	0.00
10	0.00						0.00	0.00	0.00	0.00	0.00	0.00
10	0.00						0.00	0.00	0.00	0.00	0.00	0.00
11	0.00						0.00	0.00	0.00	0.00	0.00	0.00
12	0.00						0.00	0.00	0.00	0.00	0.00	0.00
13	0.00						0.00	0.00	0.00	0.00	0.00	0.00
14	0.00						0.00	0.00	0.00	0.00	0.00	0.00
15	0.00						0.00	0.00	0.00	0.00	0.00	0.00
16	0.00						0.00	0.00	0.00	0.00	0.00	0.00
17	0.00						0.00	0.00	0.00	0.00	0.00	0.00
18	0.00						0.00	0.00	0.00	0.00	0.00	0.00
19	0.00						0.00	0.00	0.00	0.00	0.00	0.00
20	0.00						0.00	0.00	0.00	0.00	0.00	0.00
21	0.00						0.00	0.00	0.00	0.00	0.00	0.00
22	0.00						0.00	0.00	0.00	0.00	0.00	0.00
23	0.00						0.00	0.00	0.00	0.00	0.00	0.00
24	0.00						0.00	0.00	0.00	0.00	0.00	0.00
25	0.00						0.00	0.00	26	0.00	0.00	0.00
26	0.00						0.00	0.00	9.9	0.00	0.00	0.00
27	0.00						0.00	0.00	0.02	0.00	0.00	0.00
28	0.00						0.00	0.00	0.00	0.00	0.00	0.00
29	0.00						0.00	0.00	0.00	0.00	0.00	0.00
30	0.00						0.00	0.00	0.00	0.00	0.00	0.00
31	0.00							0.00		0.00	0.00	
TOTAL	0.00						0.00	0.00	35.92	0.00	0.00	0.00
MEAN	0.00						0.00	0.00	1.20	0.00	0.00	0.00
MAX	0.00						0.00	0.00	26	0.00	0.00	0.00
MIN	0.00						0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00						0.00	0.00	71	0.00	0.00	0.00

# 07126485 PURGATOIRE RIVER AT ROCK CROSSING NEAR TIMPAS, CO

LOCATION.--Lat 37°37'06', long 103°35'35" in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 10, T.28 S., R.55 W., Las Animas County, Hydrologic Unit 11020010, on right bank at Rock Crossing, 2.1 mi upstream from Minnie Canyon, 2.4 mi downstream from Beaty Canyon, and 17 mi southeast of Timpas.

DRAINAGE AREA.--2,635 mi<sup>2</sup>, of which 11.8 mi<sup>2</sup> is noncontributing.

 $PERIOD \ OF \ RECORD. -- June \ 1983 \ to \ current \ year. \ For \ a \ complete \ listing \ of \ historical \ data \ available \ for this \ site, see \ http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07126485$ 

REVISED RECORD.--WDR CO-87-1: 1984-86 (M). WDR CO-01-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gages. Elevation of gage is 4,350 ft above NGVD of 1929, from topographic map. June 1, 1983 to July 17, 1985, at site 500 ft downstream at same datum.

REMARKS.—Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants. Peak flows are regulated to some extent by Trinidad Lake (station 07124400) 92 mi upstream.

					R YEAR OC		ET PER SECO 3 TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	6.4 8.4 5.2 3.6 2.6	0.61 0.64 1.3 3.8 4.1	9.1 e9.5 e9.7 e10 e10	e12 e13 e12 e11 e11	e10 e10 e10 e10 e10	13 12 12 12 12 13	3.8 3.5 3.5 3.3 3.1	557 571 493 433 561	9.1 6.7 5.4 4.7 6.7	130 99 76 60 39	178 98 51 40 45	30 25 19 16 15
6 7 8 9 10	2.4 6.9 5.9 5.9 7.0	4.6 4.9 5.7 6.2 6.1	10 10 10 11 11	e10 e11 e10 e10 e11	e10 e10 e10 e10 e9.7	13 13 13 13 13	3.1 3.2 8.8 8.8 8.9	548 807 484 416 345	10 6.7 6.2 8.7 8.6	31 22 20 19 31	31 199 622 637 755	13 13 15 17 14
11 12 13 14 15	5.8 5.1 4.5 4.0 3.7	6.7 6.7 7.0 7.2 7.0	e10 e10 9.5 e10 e10	e11 e11 e12 e11	e9.5 e9.4 e9.2 e9.5 e11	12 11 11 11 10	8.1 15 32 31 23	271 203 186 194 219	8.4 6.5 6.6 8.4 19	27 39 44 30 24	659 238 457 1,470 825	12 11 8.9 8.0 7.5
16 17 18 19 20	3.2 3.1 3.6 2.7 2.0	6.9 6.8 7.4 7.4 7.7	e10 e10 e10 e10 e10	12 12 13 12 11	12 13 14 15 18	10 10 9.9 9.6 9.1	17 24 22 18 15	185 94 70 53 41	31 26 28 243 74	32 212 533 171 60	247 112 71 61 101	8.1 9.9 9.6 9.3 9.2
21 22 23 24 25	1.7 1.4 1.1 0.91 0.78	7.7 7.5 7.9 8.0 e9.0	e10 e10 e10 e10	11 11 12 11 9.8	16 17 17 16 15	8.8 8.7 8.2 7.7 7.4	13 13 57 72 144	31 26 26 24 18	53 47 88 75 78	47 39 728 111 453	159 90 70 75 94	8.3 7.5 6.5 10 15
26 27 28 29 30 31	0.70 0.69 0.66 0.66 0.62 0.61	9.4 8.7 e9.2 e9.4 e9.2	e11 e10 11 10 e11 e12	e9.5 e9.8 e9.3 e10 e10 e11	15 14 14 13	7.1 7.0 7.0 5.7 4.8 4.2	301 437 749 494 519	19 18 22 15 12 9.7	276 152 478 222 429	141 79 251 294 126 81	123 107 71 46 40 35	17 16 16 16 15
TOTAL MEAN MAX MIN AC-FT	101.83 3.28 8.4 0.61 202	194.75 6.49 9.4 0.61 386	315.8 10.2 12 9.1 626	341.4 11.0 13 9.3 677	357.3 12.3 18 9.2 709	307.2 9.91 13 4.2 609	3,054.1 102 749 3.1 6,060	6,951.7 224 807 9.7 13,790	2,421.7 80.7 478 4.7 4,800	4,049 131 728 19 8,030	7,807 252 1,470 31 15,490	397.8 13.3 30 6.5 789
							VATER YEAI	` ′				
MEAN MAX (WY) MIN (WY)	38.0 89.1 (1999) 1.20 (2003)	36.5 68.3 (1999) 2.61 (2003)	31.3 43.4 (1998) 6.91 (2003)	29.7 41.4 (1984) 10.4 (2003)	32.1 56.0 (1988) 10.1 (2003)	42.8 139 (1998) 9.91 (2004)	86.0 330 (1993) 8.23 (2002)	126 585 (1987) 1.34 (2002)	95.2 836 (1983) 7.23 (2001)	74.0 186 (1992) 1.62 (2003)	120 468 (1999) 24.4 (2001)	45.7 124 (2002) 12.5 (1990)
SUMMAR	Y STATIST	ICS		FOR 2003 (	CALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 1983	3 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU	MEAN ANNUAL M ANNUAL M DAILY ME DAILY ME SEVEN-DA M PEAK FL M PEAK ST	IEAN AN AN Y MINIMUN OW AGE	Л	46	5 Aug 0.00 Jul 0.00 Jul	22	3,09	0.61 Oc 0.64 Oc 90 Aug 12.77 Aug	t 31 t 27 g 14	4, b11,4	a0.00 Jur 0.00 Jur 400 Ju c17.90 Ju	1987 2003 y 2, 1999 n 30, 1990 n 30, 1990 1 9, 1992 1 9, 1992
ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS							70 14 11 4.7		43,	530 108 32 8.8		

e Estimated.

a Also occurred many days during water years 1990, 2002-2003.

b From slope-area measurement of peak flow.

c From floodmarks.

#### 07128500 PURGATOIRE RIVER NEAR LAS ANIMAS, CO

LOCATION.--Lat 38°02'02", long  $103^\circ12'00$ ", in  $NE^1/_4SW^1/_4$  sec. 23, T.23 S., R.52 W., Bent County, Hydrologic Unit 11020010, on left bank at downstream side of bridge on State Highway 101, 2.3 mi southeast of courthouse in Las Animas, and 4.5 mi upstream from mouth.

DRAINAGE AREA.--3,318 mi<sup>2</sup>, of which 11.8 mi<sup>2</sup> is noncontributing.

PERIOD OF RECORD.--May to September 1889, July to October 1909 (gage heights and discharge measurements only), January 1922 to September 1931, July 1948 to current year. Monthly discharge only for some periods, published in WSP 1311. Published as Purgatoire Creek at Las Animas in 1889 and as Purgatory River near Las Animas in 1909. Statistical summary computed for 1978 to current year, subsequent to completion of Trinidad Reservoir. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07128500

REVISED RECORDS.--WSP 1241: 1927(M); WDR CO-01-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Datum of gage is 3,878.04 ft above NGVD of 1929. See WSP 1731 for history of changes prior to Oct. 1, 1955. Oct. 1, 1955 to July 11, 1966, at datum 6.00 ft higher. Supplementary water-stage recorder at site 1.6 mi downstream at different datum July 12 to Nov. 17, 1966. Nov. 18, 1966 to May 4, 1982, at datum 3.1 ft higher. May 5, 1982 to July 17, 2002, at site on right bank at same datum.

REMARKS.--Records good except for estimated daily discharges and those above 1,000 cfs, which are poor. Natural flow of stream affected by storage reservoirs, diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants. Flows regulated to some extent by Trinidad Lake (station 07124400) about 141 mi upstream since January 1975.

EXTREMES OUTSIDE PERIOD OF RECORD. -- Flood of Oct. 1, 1904, is the greatest since at least 1860, discharge unknown.

PR MAY JUN JUL AUG SEP e2.0 490 13 339 89 50
e2.0 490 13 339 89 50
e2.0 555 9.9 134 143 48 e1.5 557 7.8 97 107 40 e1.5 458 6.5 80 70 35 e1.5 455 4.5 70 286 31
e1.5 551 2.5 54 50 26 e1.4 546 2.4 39 46 22 e1.4 758 2.3 31 180 20 1.7 458 1.9 25 477 17 2.5 393 1.3 21 582 17
3.6     329     1.0     20     685     14       3.0     250     1.6     23     528     14       2.6     190     1.4     21     213     12       2.8     174     1.1     28     542     11       7.6     175     1.1     24     1,480     8.9
14     202     1.1     21     674     6.3       10     176     11     22     262     6.0       17     116     31     299     144     6.9       33     83     14     407     1,750     6.6       13     64     141     160     204     6.0
11     51     100     72     145     4.8       13     39     55     43     182     4.3       22     31     58     129     131     3.5       42     27     47     542     101     2.8       52     25     63     157     91     2.6
12     23     284     340     104     2.4       54     22     225     142     121     2.3       29     18     136     97     112     2.2       85     18     447     499     89     2.8       59     19     194     289     67     12        17      136     56
02.6     7,270     1,865.4     4,361     9,711     437.4       73.4     235     62.2     141     313     14.6       85     758     447     542     1,750     50       1.4     17     1.0     20     46     2.2       70     14,420     3,700     8,650     19,260     868
AR (WY)
79.9 132 96.5 72.1 130 46.7 18 614 724 263 761 224 1983) (1987) (1983) (1981) (1981) (1981) (1981) 3.53 2.15 8.76 2.71 3.76 3.14 1978) (2002) (1990) (2003) (1980) (1978)
FOR 2004 WATER YEAR WATER YEARS 1978 - 2004
26,318.63 71.9
11131 11245 15285 7 A 711 1

e Estimated.

a Average discharge for 37 years (water years 1923-31, 1949-76), 116 ft<sup>3</sup>/s; 84,040 acre-ft/yr, prior to completion of Trinidad Reservoir.

Maximum daily discharge for period of record, 46,300 ft<sup>3</sup>/s, May 20, 1955.
 No flow at times in 1924-25, 1927, 1949, and 1974.

d From rating curve extended above 4,460 ft<sup>3</sup>/s; maximum discharge for period of record, 70,000 ft<sup>3</sup>/s, May 20, 1955, from rating curve extended above 38,000 ft<sup>3</sup>/s, gage height, 15.00 ft, datum then in use.

f Maximum gage height for statistical period, 12.00 ft, May 3, 1999; maximum gage height for period of record, 15.94 ft, Jun 18, 1965, datum then in use.

# 07130500 ARKANSAS RIVER BELOW JOHN MARTIN RESERVOIR, CO

LOCATION.--Lat 38°03′59", long 102°55′55", in  $NW^{1}/_{4}NE^{1}/_{4}$  sec. 8, T.23 S., R.49 W., Bent County, Hydrologic Unit 11020009, on right bank 0.2 mi downstream from John Martin Dam, 2.6 mi upstream from Caddoa Creek, and 3.5 mi southeast of Hasty.

DRAINAGE AREA.--18,915 mi<sup>2</sup>, of which 785 mi<sup>2</sup> is probably noncontributing.

PERIOD OF RECORD.--April 1938 to current year. Published as "at Caddoa" prior to October 1947. Statistical summary computed for 1949 to current year, subsequent to completion of John Martin Reservoir. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=07130500

REVISED RECORDS.--WSP 1241: 1942(M). WSP 1341: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry, concrete control, and crest-stage gage. Datum of gage is 3,737.40 ft above NGVD of 1929. Prior to Feb. 22, 1940, at site 3 mi upstream at datum 22.83 ft higher. Feb. 22, 1940 to Feb. 4, 1943, at site 700 ft upstream at datum 3.64 ft higher. Feb. 5, 1943 to Apr. 8, 1975, at site 1.5 mi downstream at datum approximately 27.5 ft lower.

REMARKS.--No estimated daily discharges. Records good except for those below 3 ft<sup>3</sup>/s, which are fair. Natural flow of stream affected by storage reservoirs, power developments, transbasin and transmountain diversions, diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants. Flow completely regulated by John Martin Reservoir (station 07130000) 0.2 mi upstream since Oct. 1948.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	21 13 11 16 15	1.5 1.2 1.3 1.3 1.2	0.78 0.78 0.75 0.68 0.72	0.66 0.73 0.61 0.68 0.91	0.83 0.75 0.78 0.80 0.76	0.84 0.88 0.88 1.00 0.96	643 662 672 813 975	522 522 558 631 663	530 539 479 416 407	547 489 439 439 383	601 483 400 342 430	344 261 173 104 103	
6 7 8 9 10	16 26 35 42 48	1.2 1.2 1.0 1.0 0.95	0.73 0.78 0.80 0.75 0.75	1.1 1.1 1.0 0.99 1.0	0.80 0.85 0.87 0.85 0.87	0.96 0.99 0.98 0.97 0.95	978 905 792 741 739	660 653 653 658 616	406 402 397 433 459	312 293 295 255 225	578 621 562 525 527	104 71 33 31 25	
11 12 13 14 15	47 47 47 42 36	0.88 0.82 0.96 0.99 0.95	0.67 0.58 0.67 0.77 0.75	1.0 0.98 1.0 1.0	0.79 0.85 0.89 0.94 0.91	0.99 1.0 1.0 0.92 0.97	653 190 313 291 260	564 534 519 518 518	468 472 470 471 469	225 223 165 116 111	568 600 455 470 421	23 23 48 85 85	
16 17 18 19 20	32 28 29 29 28	0.93 0.90 0.86 0.77 0.81	0.67 0.71 0.66 0.49 0.61	1.1 0.99 0.89 0.89 0.95	0.90 0.99 1.1 1.1 0.99	0.98 1.0 1.0 1.0 0.99	183 113 112 112 112	519 520 519 572 615	469 471 472 471 472	104 103 103 551 597	330 308 228 87 158	85 85 70 58 58	
21 22 23 24 25	28 29 29 29 28	0.79 0.84 0.77 0.77 0.78	0.67 0.62 0.61 0.64 0.68	0.96 0.91 0.96 1.0 1.1	0.97 1.00 0.91 0.87 0.87	1.0 1.1 1.1 1.1 1.1	113 89 116 339 467	574 538 535 530 520	583 601 531 493 383	357 349 417 440 408	294 311 379 440 452	63 79 78 46 23	
26 27 28 29 30 31	28 28 28 28 25 15	0.77 0.75 0.73 0.78 0.83	0.64 0.69 0.60 0.60 0.65 0.59	0.95 17 19 0.82 0.85 0.78	0.86 0.91 0.83 0.87	279 587 584 615 635 637	469 458 669 827 669	515 524 531 529 529 530	299 397 482 633 658	500 497 401 495 582 602	452 455 458 458 459 458	23 16 9.8 7.2 11	
TOTAL MEAN MAX MIN AC-FT	903 29.1 48 11 1,790	28.53 0.95 1.5 0.73 57	21.09 0.68 0.80 0.49 42	63.01 2.03 19 0.61 125	25.71 0.89 1.1 0.75 51	3,361.66 108 637 0.84 6,670	14,475 482 978 89 28,710	17,389 561 663 515 34,490	14,233 474 658 299 28,230	11,023 356 602 103 21,860	13,310 429 621 87 26,400	2,225.0 74.2 344 7.2 4,410	
							ATER YEAR	` ′	504	600		216	
MEAN MAX (WY) MIN (WY)	194 565 (1949) 11.4 (1975)	25.2 217 (1966) 0.85 (1977)	16.4 317 (1998) 0.64 (1977)	19.1 725 (1998) 0.62 (1977)	22.5 477 (1966) 0.75 (1977)	54.0 498 (1998) 1.06 (1980)	420 1,174 (1987) 2.43 (1973)	478 2,576 (1987) 34.2 (1975)	594 2,665 (1987) 52.0 (1954)	689 2,895 (1995) 86.1 (1963)	555 2,127 (1965) 22.6 (1960)	316 1,007 (1984) 6.69 (1974)	
SUMMAR	RY STATIST	ICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 194	19 - 2004	
ANNUAL HIGHEST LOWEST	ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN			FOR 2003 CALENDAR YEAR 37,002.32 101			77,058.00 211			7	283 745 82.5	1987 1964	
LOWEST ANNUAL MAXIMU	M PEAK FL	AN Y MINIMUN Ow	Л		) Jun ().49 Dec ().61 Dec	19		0.49 Dec 0.61 Dec 50 Ap	r 6 c 19 c 18 r 5 r 5	3,8 c4,1	b0.36 D 0.36 D 100 A	ug 25, 1965 ec 25, 1979 ec 25, 1979 ug 25, 1965 ug 25, 1965	
MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS		73,390 408 25 0.78			3.63 Apr 5 152,800 582 42 0.77			205,200 860 57 1.9					

- Average discharge for 5 years (water years 1939-43), 628 ft<sup>3</sup>/s; 455,000 acre-ft/yr, prior to start of storage in John Martin Reservoir. Also occurred Dec 26, 1979 to Jan 3, 1980; no flow on many days during 1945-47. Minimum daily discharge prior to start of storage in John Martin Reservoir, 5 ft<sup>3</sup>/s, Jul 16, 1939.
- of Maximum discharge for period of record, 40,000 ft<sup>3</sup>/s, Apr 24, 1942, from rating curve extended above 12,000 ft<sup>3</sup>/s on basis of flow-over-dam and critical-depth measurement of peak flow, gage height, 10.46 ft, site and datum then in use.

  d Maximum gage height for period of record, 10.62 ft, Jun 18, 1965 (backwater from Caddoa Creek), site and datum then in use.

#### 07133000 ARKANSAS RIVER AT LAMAR, CO

LOCATION.--Lat 38°06′21″, long 102°37′05″, in NE½4SE½4 sec.30, T.22 S., R.46 W., Prowers County, Hydrologic Unit 11020009, on left bank at left downstream end of downstream bridge on U.S. Highways 50 and 287, and 1.3 mi north of courthouse in Lamar.

DRAINAGE AREA.--19,780 mi<sup>2</sup>, of which 950 mi<sup>2</sup> is probably noncontributing.

PERIOD OF RECORD.--May 1913 to September 1955, April 1959 to current year. Monthly discharge only for some periods, published in WSP 1311. Statistical summary computed for 1949 to current year, subsequent to completion of John Martin Reservoir. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07133000

REVISED RECORDS.--WSP 1341: 1921(M), 1945-46(M), drainage area; WDR CO-86-1: 1985.

GAGE.--Water-stage recorder with satellite telemetry and crest stage gage. Datum of gage is 3,597.39 ft above NGVD of 1929. See WSP 1731 for history of changes prior to Apr. 4, 1959. Apr. 4, 1959 to Mar. 26, 1968, at site 525 ft upstream at datum 2.42 ft higher. Mar. 27, 1968 to Nov. 17, 1982, at site 375 ft downstream at datum 4.00 ft lower. March 18, 1987 to March 6, 2002, at site 75 ft upstream at same datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, power developments, transbasin and transmountain diversions, diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants. Flow regulated by John Martin Reservoir (station 07130000) 21 mi upstream since Oct. 1948.

DISCHARGE, CUBIC FEET PER SECOND

					R YEAR OC		TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	31 17 13 9.5 8.9	8.4 6.5 6.7 7.1 7.2	6.1 6.1 5.9 6.1 6.1	6.7 6.3 8.5 11 e9.5	8.2 e8.0 7.5 7.4 7.6	6.3 6.5 6.6 7.2 7.6	572 591 635 699 921	67 24 21 19 24	11 13 20 42 32	16 13 11 10 11	48 27 37 22 40	27 28 28 37 28
6 7 8 9 10	8.6 8.1 9.2 12 15	7.1 6.7 6.7 6.6 6.6	6.6 6.8 6.5 6.7 6.8	e9.0 10 7.0 6.8 6.7	6.9 6.7 7.0 6.7 6.9	6.9 6.9 6.9 5.8 5.7	919 854 774 653 668	36 42 38 38 38	23 14 11 11 13	23 13 12 11 10	29 36 294 124 40	26 25 25 24 24
11 12 13 14 15	19 22 23 23 22	6.6 6.8 7.0 7.1 7.3	6.6 6.5 6.5 7.1 7.3	6.8 7.2 7.3 7.1 7.2	7.2 6.8 6.8 7.1 7.8	5.7 5.8 5.8 5.7 5.7	660 281 73 57 20	25 15 16 15 15	8.4 10 8.0 8.8 11	10 10 9.7 11 9.7	30 92 56 17 17	24 25 25 27 45
16 17 18 19 20	17 15 13 13 12	7.3 6.9 6.8 6.8 7.2	6.9 6.9 6.8 6.6 6.4	6.1 5.6 5.9 6.1 6.0	6.7 6.5 6.5 7.0 6.6	5.7 5.6 5.9 5.7 5.4	18 28 19 16 15	14 14 14 16 41	19 97 72 42 19	10 10 11 10 21	11 7.7 8.5 225 209	46 46 47 50 48
21 22 23 24 25	12 13 14 13 13	7.4 7.7 8.0 e7.5 e7.0	5.8 5.9 6.4 6.8 6.7	5.8 5.6 5.7 6.0 6.2	6.6 6.6 6.6 6.7	5.2 5.2 5.2 5.4 5.2	12 13 26 18 17	48 28 19 16 15	275 117 21 15 14	12 24 59 41 22	41 35 32 31 30	47 57 48 44 42
26 27 28 29 30 31	14 14 14 14 13 12	7.2 6.2 6.2 6.2 5.7	6.3 6.1 6.3 6.2 6.6 7.0	6.3 6.2 6.7 7.7 8.0 8.5	6.3 6.1 6.1 6.1	5.9 295 453 485 539 550	15 13 16 46 92	16 13 12 11 11	13 11 10 11 30	15 15 15 13 27 65	30 30 30 29 29 29	13 12 12 12 12
TOTAL MEAN MAX MIN AC-FT	457.3 14.8 31 8.1 907	208.5 6.95 8.4 5.7 414	201.4 6.50 7.3 5.8 399	219.5 7.08 11 5.6 435	199.6 6.88 8.2 6.1 396	2,477.5 79.9 550 5.2 4,910	8,741 291 921 12 17,340	732 23.6 67 11 1,450	1,002.2 33.4 275 8.0 1,990	550.4 17.8 65 9.7 1,090	1,716.2 55.4 294 7.7 3,400	954 31.8 57 12 1,890
							ATER YEAR	, ,	251	202	24.4	00.2
MEAN MAX (WY) MIN (WY)	37.4 233 (1949) 0.84 (1978)	21.0 117 (1998) 1.81 (1978)	29.1 350 (1998) 0.56 (1978)	39.0 796 (1998) 0.47 (1978)	40.1 507 (1966) 0.72 (1965)	41.8 516 (1998) 1.11 (1965)	164 1,089 (1987) 5.90 (1995)	195 2,143 (1987) 6.41 (1963)	276 2,087 (1987) 3.80 (1954)	303 2,457 (1995) 10.2 (1964)	214 1,547 (1965) 10.9 (1974)	88.3 689 (1965) 1.37 (1974)
SUMMAR	Y STATISTIC	CS		FOR 2003 C	CALENDAR Y	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 194	19 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 90 PERCENT EXCEEDS		FOR 2003 CALENDAR YEAR 6,953.7 19.1  171 Jun 19 3.4 Jan 6 3.4 Jan 6  13,790 48 8.6 3.9				17,459.6 47.7 921 Apr 5 5.2 Mar 21 5.3 Mar 19 1,270 Aug 19 8.64 Aug 19 34,630 48 12 6.1			5 b25,0 d73,8 1 87,2	c0.00 D 0.21 J 800 J f16.48 J	1987 2003 (un 18, 1965 bec 5, 1953 [Jan 10, 1965 (un 18, 1965 (un 18, 1965	

Average discharge for 30 years (water years 1914-43), 298 ft<sup>3</sup>/s, 215,900 acre-ft/yr, prior to and during construction of John Martin Dam. Maximum daily discharge for period of record, 87,300 ft<sup>3</sup>/s, Jun 5, 1921.

Also minimum daily discharge for period of record; also occurred at times in 1913-15.

From current-meter and timed-drift measurement of peak flow, maximum discharge and gage height for period of record, 130,000 ft<sup>3</sup>/s, (determined by Colorado State Engineer) Jun 5, 1921, from rating curve extended above 10,000 ft<sup>3</sup>/s, gage height, 14.55 ft, site and datum then in use.

f From floodmarks, site and datum then in use.

#### 07134100 BIG SANDY CREEK NEAR LAMAR, CO

 $LOCATION.--Lat~38^{\circ}06'51", long~102^{\circ}29'00", in~SW^{1}_{4}SW^{1}_{2} sec. 21, T.22~S., R.45~W., Prowers~County, Hydrologic~Unit~11020011, on~right~bank~35~ft~upstream~from~State~Highway~196, 950~ft~upstream~from~mouth,~and~7.5~mi~east~of~Lamar.$ 

DRAINAGE AREA.--3,248 mi<sup>2</sup>, of which about 585 mi<sup>2</sup> is probably noncontributing.

PERIOD OF RECORD.-- February 1968 to September 1982, July 1995 to current year. For a complete listing of historical data available for this site, see http:// waterdata.usgs.gov/co/nwis/inventory/?site\_no=07134100

REVISED RECORDS .-- WDR CO-01-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 3,545 ft above NGVD of 1929, from topographic map. Prior to June 30, 1977, at datum 1.00 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by storage, erosion-control, and livestock-watering reservoirs, diversions for irrigation, ground-water withdrawals, and return flows from irrigated areas. Flow affected by backwater from the Arkansas River at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 17, 1965, reached a discharge of 3,600 ft<sup>3</sup>/s, from slope-area measurement of peak flow 0.5 mi upstream from station. Flood of Aug. 21, 1965, reached a stage of 9.93 ft, from floodmarks, discharge unknown.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	e0.90 e0.80 e0.80 e0.70	e1.0 e1.1 e1.2 e1.4 e1.5	e3.6 e3.3 2.9 e3.0 e3.0	e2.9 e2.9 e2.9 e2.9 e2.9	e2.7 e2.6 e2.7 e2.7 e2.7	e2.6 e2.6 2.6 2.6 2.6	e2.1 e2.1 e2.1 e2.1 e2.2	7.1 6.2 5.5 5.8 5.1	7.0 4.7 4.3 4.3	8.6 9.3 11 11 10	7.1 5.7 5.7 6.5 5.3	15 14 13 13 14	
6 7 8 9 10	e0.60 e0.60 e0.59 0.54 0.48	e1.6 1.6 1.5 1.6 e1.6	e3.0 e3.0 e3.0 e3.0 e3.0	e2.7 e2.9 e2.8 e2.8 e2.8	e2.7 e2.7 e2.7 e2.7 e2.7	2.6 2.4 2.6 2.5 2.3	e2.2 e2.1 1.1 1.0 1.3	5.6 5.9 5.3 6.6 5.7	5.0 4.3 3.5 3.4 118	8.0 3.8 4.2 5.2 6.2	4.2 9.0 21 26 18	13 12 11 10 9.6	
11 12 13 14 15	0.50 0.49 0.52 0.53 0.56	e1.6 e1.6 e1.6 e1.6 e1.6	e3.1 e3.2 e3.0 e3.2 e3.2	e2.8 e2.8 e2.8 e2.8 e2.8	e2.7 e2.5 e2.5 e2.6 e2.6	2.0 2.1 2.1 2.0 2.1	1.3 1.2 1.3 1.2 1.4	6.1 6.4 8.3 5.0 4.8	33 11 5.9 4.6 4.1	4.0 4.9 6.6 6.7 6.1	18 17 16 12 11	4.9 4.5 4.3 4.3 4.5	
16 17 18 19 20	0.65 0.77 0.79 0.76 0.77	e1.6 e1.6 e1.8 e1.8 e2.0	e3.2 e3.2 e3.2 e3.2 e3.2	e2.8 e2.8 e2.8 e2.8 e2.8	e2.6 e2.6 e2.6 e2.6 e2.6	2.5 2.1 2.0 2.2 1.7	2.3 2.8 0.16 0.11 0.28	4.5 4.7 4.6 3.5 4.6	3.5 5.2 9.7 19	4.7 1.6 1.8 2.6 2.0	11 10 14 19 16	5.2 5.5 e5.0 e5.0 e5.0	
21 22 23 24 25	0.73 0.75 0.81 0.74 0.74	2.5 2.6 2.4 e2.5 e2.8	e3.2 e3.2 e3.0 e3.0	e2.7 e2.7 e2.7 e2.7 e2.7	e2.6 e2.6 e2.6 e2.6 e2.6	1.6 1.6 e1.6 e1.7 e1.7	0.12 0.13 3.2 14 8.2	3.6 3.4 6.8 5.9 5.1	30 19 13 10 8.4	3.4 5.3 11 12 9.1	15 8.9 9.2 13 17	e5.0 e5.0 e5.0 e5.0 e5.0	
26 27 28 29 30 31	0.87 1.0 e1.0 e1.0 e1.0 e1.0	e3.0 e3.0 e3.2 e3.4 e3.5	e3.0 e3.0 e2.8 e2.8 e2.9 e2.9	e2.7 e2.5 e2.6 e2.7 e2.7 e2.7	e2.6 e2.6 e2.6 e2.6	e1.8 e1.8 e2.0 e2.0 e2.0	5.5 6.7 6.4 6.0 6.8	3.7 5.3 4.7 4.4 4.0 4.2	9.0 6.1 5.9 5.9 6.6	7.9 7.0 7.9 10 7.8 9.7	17 17 13 12 12 15	e5.0 e5.0 e5.1 e5.0 e5.0	
TOTAL MEAN MAX MIN AC-FT	22.69 0.73 1.0 0.48 45	59.8 1.99 3.5 1.0 119	95.5 3.08 3.6 2.8 189	85.9 2.77 2.9 2.5 170	76.2 2.63 2.7 2.5 151	65.8 2.12 2.6 1.6 131	87.40 2.91 14 0.11 173	162.4 5.24 8.3 3.4 322	383.5 12.8 118 3.4 761	209.4 6.75 12 1.6 415	401.6 13.0 26 4.2 797	222.9 7.43 15 4.3 442	
					YEARS 1968			, ,					
MEAN MAX (WY) MIN (WY)	7.96 28.4 (1997) 0.09 (1979)	14.6 58.9 (1998) 0.41 (1978)	19.6 63.0 (1998) 0.34 (1978)	21.1 75.5 (1998) 0.50 (1978)	20.7 55.6 (1998) 2.23 (1978)	20.7 59.0 (1998) 2.10 (1977)	19.9 70.6 (1999) 0.81 (1978)	21.1 166 (1999) 2.14 (1975)	11.1 42.9 (1999) 1.77 (1976)	10.1 41.6 (1998) 0.21 (1978)	14.4 85.3 (1997) 0.03 (1976)	9.59 41.8 (1976) 0.08 (1978)	
SUMMAR	RY STATIST	TCS		FOR 2003 C	CALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 1968	8 - 2004	
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT)		И	967.95 2.65 23 Jun 7 0.48 Oct 10 0.52 Oct 9			1,873.09 5.12 118 Jun 10 0.11 Apr 19 0.52 Oct 9 231 Jun 10 4.20 Jun 10			b2,	a0.00 Au 0.00 Se 850 Ma	1999 1979 y 4, 1999 g 13, 1976 p 1, 1976 y 4, 1999 y 4, 1999		
ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS		1,920 3.5 2.1 0.90			3,720 11 3.0 1.0			41 8.6 0.95					

Also occurred on many days during 1976-79 water years.
 From rating curve extended above 1,470 ft<sup>3</sup>/s on the basis of flow through culvert analysis with flow over road measurement at gage height 9.48 ft.

#### 07134180 ARKANSAS RIVER NEAR GRANADA, CO

 $LOCATION.--Lat~38^{\circ}05'44'', long~102^{\circ}18'37'', in~SE^{1}_{4}NE^{1}_{4}~sec. 36, T.22~S., R.44~W., Prowers~County, Hydrologic~Unit~11020009, on~right~bank~(revised)~at~upstream~side~of~end~of~bridge~on~U.S.~Highway~385, 1.2~mi~downstream~from~headgate~of~Buffalo~Canal,~and~2.3~mi~north~of~Granada.~Prior~to~July~12,~2004,~at~site~on~left~bank.$ 

DRAINAGE AREA.--23,707 mi<sup>2</sup>, of which 1,648 mi<sup>2</sup> is probably noncontributing.

PERIOD OF RECORD.--January 1899 to December 1901 (gage heights only), August to October 1903 (monthly discharge only for some periods, published in WSP 1311), December 1980 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07134180

REVISED RECORDS.--WDR CO-01-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 3,480 ft above NGVD of 1929, from topographic map. See WSP 1311 for history of changes prior to December 5, 1980. Dec, 5, 1980 to July 11, 2004, at site on left bank at same datum.

REMARKS .-- Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, power developments, transbasin and transmountain diversions, diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants. Flow regulated by John Martin Reservoir (station 07130000) 38 mi upstream since October 1948.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	3.7 3.9 3.8 3.8 3.8	4.0 3.5 3.6 3.6 3.2	25 26 27 27 28	30 30 30 30 e29	31 e29 30 30 31	28 27 29 29 30	424 453 489 514 651	144 99 81 55 28	5.0 2.6 2.5 2.6 3.2	144 128 123 113 103	79 49 34 45 39	27 27 28 24 25
6 7 8 9 10	3.9 3.8 3.9 3.6 3.6	3.2 3.2 3.0 3.2 3.2	28 29 29 29 29 e28	e28 e29 e30 31 30	30 29 30 30 29	29 28 28 29 29	749 740 709 614 588	29 38 48 49 51	4.3 5.7 3.8 4.5 42	102 117 95 81 77	45 45 89 138 113	22 20 20 20 20
11 12 13 14 15	3.2 3.3 3.2 3.4 3.7	3.1 3.0 3.0 3.1 3.1	29 30 e28 30 30	30 30 30 30 31	29 e26 e26 e27 28	20 8.2 7.3 6.6 6.2	577 500 197 126 87	51 32 20 18 15	51 25 4.8 4.1 4.1	60 26 25 18 12	99 93 100 95 91	16 15 14 12 11
16 17 18 19 20	3.5 3.5 3.6 3.5 3.4	3.1 3.1 3.0 3.1 3.2	e28 e28 29 e28 29	32 31 30 30 29	28 28 29 29 29	5.8 6.3 7.1 9.1	51 39 34 26 18	15 12 6.3 6.1 5.8	4.9 19 73 188 145	12 11 8.9 9.0 12	62 43 42 42 179	9.3 7.7 6.8 6.0 5.3
21 22 23 24 25	3.4 3.4 3.5 3.4 3.2	3.1 3.0 2.9 3.0 3.0	29 29 29 e28 29	29 29 30 30 31	29 29 28 28 28	16 21 29 32 33	13 8.9 23 63 50	15 28 26 18 13	233 317 197 164 144	23 24 97 82 74	80 53 44 43 39	4.7 13 12 9.6 32
26 27 28 29 30 31	3.3 3.5 3.6 3.8 3.4 3.5	3.0 2.9 2.9 3.0 14	30 29 e28 e28 e29 29	30 e29 e29 e29 30 30	28 29 29 29 	36 38 193 288 343 386	35 38 38 37 88	9.4 3.5 3.2 3.1 2.9 2.8	134 127 117 112 124	70 41 30 33 34 62	33 33 32 33 33 29	13 9.7 21 15 9.8
TOTAL MEAN MAX MIN AC-FT	110.1 3.55 3.9 3.2 218	105.3 3.51 14 2.9 209	882 28.5 30 25 1,750	926 29.9 32 28 1,840	835 28.8 31 26 1,660	1,789.6 57.7 386 5.8 3,550	7,979.9 266 749 8.9 15,830	928.1 29.9 144 2.8 1,840	2,264.1 75.5 317 2.5 4,490	1,846.9 59.6 144 8.9 3,660	1,974 63.7 179 29 3,920	474.9 15.8 32 4.7 942
							VATER YEAR	` ′	200	400	250	405
MEAN MAX (WY) MIN (WY)	81.4 184 (1984) 3.55 (2004)	95.2 306 (1998) 3.51 (2004)	121 479 (1998) 28.5 (2004)	134 886 (1998) 29.9 (2004)	126 495 (1998) 28.8 (2004)	120 608 (1998) 22.7 (1994)	192 1,138 (1987) 5.29 (2003)	295 2,470 (1999) 4.09 (2003)	390 2,196 (1987) 9.39 (1981)	433 2,144 (1995) 5.76 (2003)	258 775 (1999) 3.18 (2003)	107 430 (1984) 3.26 (2003)
SUMMAR	Y STATIST	ICS		FOR 2003 C	ALENDAR '	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 1981	- 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM		1	6,954.6 19.1 142 Jun 20 2.9 Jul 20 3.0 Nov 22			20,115.9 55.0 749 Apr 6 2.5 Jun 3 3.0 Nov 22			5	a2.5 Jui 3.0 Aug	1987 2003 y 5, 1999 n 3, 2004 g 14, 1990 y 5, 1999	
MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS		13,790 46 3.9 3.1				8.12 Ap	r 6 r 6	145,8	c12.28 May	y 5, 1999		

a Minimum daily for period of record, 1 ft<sup>3</sup>/s, many days in 1903.
 b From rating curve extended above 3,470 ft<sup>3</sup>/s.

c Maximum gage height, 12.38 ft, May 27, 1996.

# 07134990 WILD HORSE CREEK ABOVE HOLLY, CO

LOCATION.--Lat 38°03'24", long 102°08'16", in  $NE^{1}_{4}NE^{1}_{4}$  sec. 16, T.23 S., R.42 W., Prowers County, Hydrologic Unit 11020009, on left bank 1,000 ft downstream from County Road No. 34, 0.7 mi northwest of Holly, and 0.7 mi upstream from mouth.

DRAINAGE AREA.--270 mi<sup>2</sup>, approximately, of which about 60 mi<sup>2</sup> is probably noncontributing.

PERIOD OF RECORD.--June 1995 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07134990

REVISED RECORDS.--WDR CO-01-1: Drainage area

GAGE.—Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 3,405 ft above NGVD of 1929, from topographic map. Prior to Apr. 29, 1997, at site 1,050 ft upstream at datum 3.00 ft higher.

REMARKS.—Records fair except for estimated daily discharges and those below 0.75 ft<sup>3</sup>/s, which are poor. Natural flow of stream affected by diversions for irrigation, ground-water withdrawals, and return flows from irrigated areas, the Buffalo Canal, and the Amity Canal.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum discharge, 1,270 ft<sup>3</sup>/s, May 26, 1996, from slope-area measurement of peak flow, gage height, 6.90 ft, from floodmark, site and datum then in use; maximum gage height, 8.63 ft, Aug. 7, 1997, from floodmark; no flow, Aug. 20-21, 2002, Sept. 14, 2004.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 726 ft<sup>3</sup>/s, Sept. 25, gage height, 8.05 ft; no flow, Sept. 14.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	14					1.9	4.1	0.25	4.1	1.1	1.1
2	1.2	8.8					1.1	2.2	0.29	3.3	1.3	1.0
3	0.73	2.2					0.85	0.37	0.25	2.9	2.3	1.00
4	0.68	1.7					1.4	5.0	0.15	3.2	0.80	1.00
5	1.2	2.5					0.62	26	7.9	5.0	0.54	0.99
6	1.0	1.5					0.60	0.64	6.0	4.9	0.64	0.92
7	0.80	2.7					0.58	0.54	4.3	3.3	0.59	0.87
8	0.62	1.4					0.55	0.49	5.8	2.6	0.64	0.83
9	0.62	1.4					0.63	0.40	0.19	0.58	1.0	0.57
10	0.62	1.2					0.72	0.35	0.28	1.1	1.4	0.24
11	0.70	0.97					0.69	0.36	0.29	3.2	1.7	0.30
12	0.81	0.91					0.66	0.48	0.13	30	1.4	0.30
13	0.85	1.6					0.59	0.54	0.16	3.6	1.1	0.20
14	0.81	0.92					0.52	1.2	0.09	1.5	0.89	0.00
15	0.79	1.6					0.46	2.6	0.05	2.6	0.67	0.17
16	0.83	3.9					0.42	2.5	5.6	1.0	2.5	0.10
17	0.82	9.1					0.40	2.4	9.6	0.51	6.1	0.28
18	0.75	5.1					0.49	2.3	3.0	1.8	23	0.28
19	0.77	4.5					0.99	2.3	45	0.89	54	0.49
20	2.4	12					5.4	1.5	98	0.97	57	0.67
21	4.3	13					2.0	16	47	0.87	59	0.65
22	7.4	e15					7.7	13	32	0.77	50	0.53
23	4.1	e13					13	3.8	28	7.8	28	0.28
24	4.1	e12					26	6.4	6.6	0.69	9.6	0.12
25	6.8	22					10	13	4.6	0.68	9.8	276
26	14	39					43	5.8	31	0.59	23	14
27	11	41					29	5.5	73	0.48	35	2.6
28	14	40					24	0.88	4.8	0.68	57	1.3
29	5.4	29					25	0.38	5.2	0.55	30	0.80
30	1.8	1.0					59	0.67	4.5	0.53	16	2.5
31	4.7							0.37		0.63	3.3	
TOTAL	95.70	303.00					258.27	122.07	424.03	91.32	479.37	310.09
MEAN	3.09	10.1					8.61	3.94	14.1	2.95	15.5	10.3
MAX	14	41					59	26	98	30	59	276
MIN	0.62	0.91					0.40	0.35	0.05	0.48	0.54	0.00
AC-FT	190	601					512	242	841	181	951	615

e Estimated.

#### 07137000 FRONTIER DITCH NEAR COOLIDGE, KS

LOCATION.--Lat 38°02′18", long 102°02′19", in SW  $\frac{1}{4}$  SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.21, T.23 S., R.43 W., Hamilton County, Hydrologic Unit 11030001, on left bank 0.3 mi east of Colorado-Kansas State line, 0.5 mi downstream from Holly drain diversion, 1.5 mi west of Coolidge, and 2.3 mi downstream from diversion of the Arkansas River.

PERIOD OF RECORD.--October 1950 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/ks/nwis/inventory/?site\_no=07137000

REVISED RECORDS.--WSP 1731: 1951.

GAGE.--Water-stage recorders and Parshall flume. Datum of gage is 3,343.14 ft above NGVD of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are fair. This ditch diverts water from the Arkansas River in Colorado for use in Kansas. These records and records for the Arkansas River near Coolidge (station 07137500) represent total flow of the Arkansas River at the Colorado-Kansas State line. Satellite telemeter at station

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 84 ft<sup>3</sup>/s, Aug. 1, 1975; no flow many days each year.

# DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	e20 18 17 17 17	21 22 21 20 19	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	24 24 24 24 24 24	0.00 0.00 0.00 0.00 0.00	22 20 19 20 28	0.00 0.00 0.00 0.00 0.00	e40 e40 e38 e37 34	17 17 15 15 16
6 7 8 9 10	17 16 e17 19 18	20 19 18 18	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	24 26 e29 e29 e29	0.00 0.00 0.00 0.00 0.00	28 24 24 21 25	0.00 0.00 0.00 6.6 14	32 34 33 34 31	16 17 20 22 22
11 12 13 14 15	16 15 15 14 14	16 13 11 9.9 8.6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	e29 e30 e30 31 31	17 26 26 27 27	27 31 24 17 e20	29 19 15 29 32	28 28 28 28 28	e22 e23 e22 e22 e22
16 17 18 19 20	13 13 13 12 11	7.7 7.0 6.4 6.3 6.7	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	32 32 31 26 26	27 27 27 27 27 27	e5.6 0.53 0.16 0.00 0.09	34 e38 e39 e39 e39	28 28 27 28 28	e22 e22 e24 e23 e22
21 22 23 24 25	9.4 7.7 6.5 e6.5 e8.2	e6.6 e6.2 e6.7 e6.4 e6.0	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	26 26 25 14 0.09	27 27 27 27 27 e29	1.0 0.18 0.00 0.00 0.00	37 e35 e39 e39 e40	26 26 26 25 24	e22 e22 e17 0.94 0.73
26 27 28 29 30 31	e8.4 e6.7 e9.9 e21 20 20	e5.6 0.05 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	11 18 22 28 26 25	0.00 0.00 0.00 0.00 0.00	e32 e32 e30 26 23 22	0.00 0.00 0.00 0.00 0.00	e40 e40 e40 e40 e38 e39	23 23 24 22 21 19	0.47 0.23 0.03 0.00 0.00
MEAN MAX MIN AC-FT	14.1 21 6.5 865	10.8 22 0.00 645	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4.19 28 0.00 258	21.5 32 0.00 1,280	18.1 32 0.00 1,110	11.9 31 0.00 709	24.5 40 0.00 1,510	28.7 40 19 1,770	15.5 24 0.00 921

CAL YR 2003 MEAN 9.12 MAX 31 MIN 0.00 AC-FT 6600 WTR YR 2004 MEAN 12.5 MAX 40 MIN 0.00 AC-FT 9070

e Estimated.

#### 07137500 ARKANSAS RIVER NEAR COOLIDGE, KS

 $LOCATION.--Lat~38^{\circ}01'39", long~102^{\circ}00'42", in~NW~\frac{1}{4}~NE~\frac{1}{4}~NW~\frac{1}{4}~sec.26, T.23~S., R.43~W., Hamilton~County, Hydrologic~Unit~11030001, on~right~bank~at~downstream~side~of~county~highway~bridge,~1.0~mi~south~of~Coolidge,~1.9~mi~downstream~from~Colorado-Kansas~State~line,~and~at~mile~1,099.3.$ 

DRAINAGE AREA.--25,410 mi<sup>2</sup>, of which 1,708 mi<sup>2</sup> is probably noncontributing.

PERIOD OF RECORD.--May to October 1903, March to May 1921, October 1950 to current year. Monthly discharge only for some periods, published in WSP 1311. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/ks/nwis/inventory/?site\_no=07137500

REVISED RECORDS .-- WSP 1341: 1903, drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3,330.84 ft above NGVD of 1929. May 5 to Oct. 31, 1903, nonrecording gage, and Mar. 1 to May 31, 1921, water-stage recorder at present site at different datum. Oct. 1, 1950, to Mar. 31, 1966, water-stage recorder at site 0.3 mi upstream at datum 3.00 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Combined flow of river and Frontier Ditch (station 07137000) represents entire flow that enters Kansas. Flow regulated since 1948 by John Martin Reservoir (station 07130000). Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation of about 500,000 acres, and return flow from irrigated areas. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND

							TO SEPTEM	IBER 2004				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	11	32	41	43	45	310	142	14	197	126	48
2	24	11	27	41	43	44	340	146	14	206	106	47
3	18	9.6	29	41	44	44	375	122	14	186	86	41
4	16	8.7	30	40	44	47	411	110	15	165	73	40
5	14	8.0	32	38	44	46	464	108	16	150	57	41
6	12	7.8	31	31	42	44	603	95	15	147	62	40
7	15	8.0	35	29	42	41	651	87	14	137	61	38
8	9.9	7.6	35	35	43	44	630	86	14	135	90	33
9	9.1	7.6	36	42	43	43	595	86	18	110	129	30
10	9.1	8.0	35	44	42	43	559	87	21	96	145	27
11	15	8.7	35	44	43	39	554	74	26	76	183	25
12	14	10	34	41	e37	41	530	65	25	82	139	23
13	15	13	32	41	e36	42	347	58	22	66	128	22
14	13	14	35	43	e38	37	201	57	24	50	141	22
15	15	15	42	49	43	35	155	51	24	43	126	22
16	18	16	37	45	41	40	119	51	145	35	113	25
17	22	18	39	41	41	31	96	44	104	30	112	24
18	16	20	42	40	41	28	81	43	89	29	93	23
19	17	19	39	41	43	27	74	38	414	26	89	22
20	17	21	40	40	42	27	65	38	385	25	84	27
21	18	23	41	39	42	26	54	38	792	25	151	30
22	20	24	41	39	41	27	59	45	480	23	134	41
23	23	28	40	40	41	27	68	42	349	327	105	48
24	23	28	40	41	41	24	135	39	285	215	79	60
25	23	38	41	42	43	25	135	37	230	128	69	201
26 27 28 29 30 31	24 26 24 13 9.3 8.9	36 42 41 41 39	41 41 39 38 40 43	42 e38 e38 e38 e39 42	45 47 45 43 	20 13 14 115 202 268	125 117 114 108 124	27 22 17 16 15	197 371 207 179 171	109 84 76 81 71 103	72 67 72 65 60 52	129 104 85 69 64
MEAN	16.8	19.4	36.8	40.2	42.2	50.0	273	61.3	156	104	99.0	48.4
MAX	26	42	43	49	47	268	651	146	792	327	183	201
MIN	8.9	7.6	27	29	36	13	54	15	14	23	52	22
AC-FT	1,030	1,150	2,270	2,470	2,430	3,070	16,260	3,770	9,270	6,410	6,090	2,880
STATIST MEAN	ICS OF MON 132	NTHLY MEA 120	.N DATA FC 125	OR WATER Y 133	EARS 1951 138	- 2004, BY W 133	VATER YEAF 216	313	478	352	325	177
MAX	332	424	534	972	602	658	1,221	2,478	8,221	2,255	1,979	1,079
(WY)	(1998)	(1998)	(1998)	(1998)	(1966)	(1998)	(1987)	(1999)	(1965)	(1995)	(1965)	(1965)
MIN	1.97	1.53	3.94	3.14	5.52	5.63	9.43	6.61	4.20	3.59	1.94	0.90
(WY)	(1979)	(1979)	(1979)	(1979)	(1978)	(1978)	(1979)	(1963)	(1954)	(1974)	(1964)	(1960)
SUMMAI	RY STATIST	ICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 195	1 - 2004
ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 90 PERCENT EXCEEDS		И	26,340 60 32	36.4  163 Jun 21 2.5 Sep 18 2.7 Sep 16  26,340 60 32 5.2			78.7  792 Jun 21  7.6 Nov 8  8.0 Nov 4  1,390 Jun 21  6.39 Jun 21  57,100  158  41  15			0.00 Jr 0.00 Jr 000 Ju	1965 1979 In 18, 1965 Il 9, 1954 Il 9, 1954 In 17, 1965 In 17, 1965	

e Estimated.

#### 08219500 SOUTH FORK RIO GRANDE AT SOUTH FORK, CO

 $LOCATION.--Lat~37^\circ 39^\prime 25^\circ, long~106^\circ 38^\prime 55^\circ, in~SW^{1}{}_{4}NE^{1}{}_{4}sec. 3,~T.39~N.,~R.3~E.,~Rio~Grande~County,~Hydrologic~Unit~13010001,~on~left~bank~near~U.S.~Highway~160,~0.1~mi~downstream~from~Church~Creek,~0.9~mi~southwest~of~village~of~South~Fork,~and~1.5~mi~upstream~from~mouth.$ 

DRAINAGE AREA.--216 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1910 to September 1922, May 1936 to September 1995, and October 1998 to current year. Monthly discharge only for some periods, published in WSP 1312. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=08219500

REVISED RECORDS.--WSP 898: 1911(M). WSP 1312: 1912, 1944(M). WSP 1632: 1956-58(P).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,221.79 ft above NGVD of 1929. Aug. 9, 1910 to Mar. 28, 1915, nonrecording gage, and Mar. 29, 1915 to Sept. 30, 1922, water-stage recorder, at bridges 1 mi downstream at different datums.

REMARKS.—Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, transmountain diversions from Colorado River Basin through Treasure Pass Ditch (see elsewhere in this report), diversions for irrigation, and return flows from irrigated areas. Flow slightly regulated by Beaver Creek Reservoir on Beaver Creek, capacity, 4,760 acre-ft, and several other storage reservoirs.

COOPERATION .-- Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Oct. 5, 1911, exceeds all other observed floods at this location since at least 1873. Flood of June 29, 1927, reached a stage about 1 ft lower than that of Oct. 5, 1911, from information by local residents.

			YEAR OC	TOBER 2003	TO SEPTEM					
NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
40	e31	e26	e26	e28	219	292	735	204	66	44
69	e31	e28	e26	e30	232	297	760	174	63	42
102	e29	e27	e28	e29	236	334	862	145	71	38
73	e28	e24	e29	e33	217	434	923	127	66	92
51	e30	e20	e27	e32	204	558	956	120	59	136
49	e31	e22	e25	e30	202	709	926	113	64	84
48	e33	e26	e25	e35	204	860	974	103	85	79
46	e32	e25	e26	e40	200	947	941	99	77	66
48	e29	e24	e25	e45	198	986	834	98	66	58
44	e24	e24	e25	e50	190	1,030	754	96	69	47
33	e26	e23	e26	e50	188	1,100	622	98	63	46
31	e26	e23	e24	e60	179	996	537	91	61	42
32	e24	e23	e20	e80	173	763	479	87	53	39
e31	e26	e23	e22	e90	181	643	474	79	46	35
e29	e25	e26	e23	e110	189	638	488	71	45	33
e29	e23	e27	e23	e120	214	737	450	72	45	32
e32	e25	e26	e24	e120	238	863	417	78	44	31
e30	e26	e23	e25	127	238	982	387	76	53	29
e30	e27	e23	e26	151	235	1,130	365	74	58	191
e31	e27	e27	e25	173	234	1,190	341	79	59	762
e33	e27	e25	e26	193	233	1,160	313	93	62	486
e31	e26	e24	e24	220	226	1,100	289	89	62	362
e29	e26	e24	e23	233	222	971	265	98	59	255
e30	e27	e25	e25	243	203	855	242	107	50	209
e32	e27	e27	e24	248	206	788	228	90	47	186
e30 e29 e29 e30 e31	e28 e24 e23 e21 e24 e24	e25 e22 e24 e26 e27 e28	e24 e28 e27 e26	264 252 208 180 177 192	211 233 278 320 317	730 776 857 956 797 730	226 221 207 208 240	81 85 77 79 72 73	43 41 41 39 40 45	187 165 144 135 129
1,182	830	767	727	3,843	6,620	25,209	15,664	3,028	1,742	4,184
39.4	26.8	24.7	25.1	124	221	813	522	97.7	56.2	139
102	33	28	29	264	320	1,190	974	204	85	762
29	21	20	20	28	173	292	207	71	39	29
2,340	1,650	1,520	1,440	7,620	13,130	50,000	31,070	6,010	3,460	8,300
57.1	A3.2	37.2	40.0	63.8	215	688	813	250	110	86.9
152	106	88.6	78.3	131	479	1,282	1,746	794	264	358
(1987)	(1912)	(1986)	(1986)	(1989)	(1962)	(1984)	(1979)	(1957)	(1957)	(1970)
23.9	18.0	13.6	18.2	21.5	85.2	136	51.0	28.8	22.7	23.6
(1961)	(1977)	(1977)	(1955)	(1955)	(1955)	(2002)	(2002)	(2002)	(2002)	(1956)
STICS		FOR 2003 CA	LENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 19	910 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS		37,782 104 826 May 29 13 Feb 7 16 Feb 4 74,940 273 43		1,190 May 20 20 Jan 5 23 Feb 12 1,290 May 19 4.67 May 19 128,900 640		n 5 b 12 y 19	10 Jan 11 Dec a8,000 Oct b9.70 Oct 151,300 605 70		1985 2002 Aay 24, 1984 Jan 6, 1977 Dec 31, 1976 Oct 5, 1911 Oct 5, 1911	
	40 69 102 73 51 49 48 46 48 44 43 31 32 e31 e29 e30 e30 e31 e33 e31 e29 e30 e31 e29 e30 e31 e29 e30 e31 e29 e30 e31 e29 e30 e31 e29 e30 e31 e29 e30 e31 e31 e29 e30 e31 e31 e29 e30 e31 e31 e31 e31 e31 e31 e31 e31	40 e31 69 e31 102 e29 73 e28 51 e30 49 e31 48 e33 46 e32 48 e29 44 e24 33 e26 31 e26 32 e24 e31 e26 e29 e25 e29 e23 e32 e25 e30 e26 e30 e27 e31 e26 e30 e27 e31 e26 e29 e25 e30 e26 e30 e27 e31 e26 e29 e26 e30 e27 e31 e26 e30 e27 e31 e26 e29 e26 e30 e27 e31 e26 e29 e26 e30 e27 e31 e26 e30 e27 e31 e26 e29 e24 e29 e23 e30 e21 e31 e24 e24  1,182 830 39.4 26.8 102 33 29 21 2,340 1,650  DNTHLY MEAN DATA FO  57.1 43.2 152 106 (1987) (1912) 23.9 18.0 (1961) (1977)  STICS  .MEAN MEAN MEAN MEAN LEAN EAN LEAN EAN LEAN EAN LEAN EAN LEAN EAN LEAN EAN EAN EAN EAN EAN EAN EAN EAN EAN	NOV DEC JAN  40 e31 e26 69 e31 e28 102 e29 e27 73 e28 e24 51 e30 e20  49 e31 e22 48 e33 e26 46 e32 e25 48 e29 e24 44 e24 33 e26 e23 31 e26 e23 31 e26 e23 32 e24 e23 e31 e26 e23 e29 e25 e26 e29 e25 e26 e29 e25 e26 e29 e23 e27 e30 e26 e23 e31 e27 e32 e25 e26 e30 e26 e23 e31 e27 e32 e25 e26 e30 e27 e23 e31 e26 e23 e31 e27 e32 e25 e26 e30 e27 e25 e31 e27 e33 e27 e25 e31 e26 e24 e29 e26 e24 e30 e27 e25 e31 e26 e24 e30 e27 e25 e31 e26 e24 e30 e27 e25 e31 e26 e24 e29 e26 e24 e30 e27 e25 e31 e26 e24 e30 e27 e25 e32 e27 e27 e30 e28 e25 e39 e24 e22 e29 e24 e22 e29 e23 e24 e30 e21 e26 e31 e26 e31 e26 e31 e26 e24 e30 e21 e26 e31 e24 e27 e24 e28  1,182 830 767 39,4 26,8 24,7 102 33 28 29 21 20 2,340 1,650 1,520  DNTHLY MEAN DATA FOR WATER YE  57.1 43.2 37.2 152 106 88.6 (1987) (1912) (1986) 23.9 18.0 13.6 (1961) (1977) (1977)  STICS FOR 2003 CA  MEAN MEAN MEAN MEAN MEAN MEAN MEAN ME	NOV DEC JAN FEB  40 e31 e26 e26 69 e31 e28 e26 102 e29 e27 e28 73 e28 e24 e29 51 e30 e20 e27 49 e31 e22 e25 48 e33 e26 e25 46 e32 e25 e26 48 e29 e24 e25 44 e24 e24 42 e24 e25 33 e26 e23 e26 31 e26 e23 e26 31 e26 e23 e24 e39 e27 e28 e31 e26 e23 e24 e39 e25 e26 e31 e26 e23 e25 e29 e25 e26 e30 e27 e25 e30 e27 e25 e31 e27 e27 e31 e26 e24 e39 e24 e25 e31 e27 e27 e27 e31 e26 e23 e39 e27 e31 e27 e32 e26 e31 e27 e32 e26 e31 e27 e33 e26 e31 e27 e32 e26 e31 e27 e32 e26 e31 e27 e32 e26 e31 e27 e32 e26 e31 e27 e27 e32 e39 e26 e31 e27 e27 e38 e39 e27 e39 e26 e31 e27 e27 e39 e30 e27 e31 e26 e31 e27 e27 e32 e39 e30 e37 e32 e39 e30 e37 e33 e37 e38 e39 e30 e37 e38 e39 e30 e37 e38 e39 e30 e37 e35 e32 e39 e30 e37 e35 e36 e37 e37 e38 e39 e39 e30 e37 e37 e38 e39 e39 e30 e37 e37 e37 e38 e39 e39 e39 e30 e37 e37 e37 e37 e38 e39 e39 e39 e39 e39 e30 e37	NOV DEC JAN FEB MAR  40 e31 e26 e26 e28 69 e31 e28 e26 e30 102 e29 e27 e28 e29 73 e28 e24 e29 e33 51 e30 e20 e27 e32 49 e31 e22 e25 e36 46 e32 e25 e26 e40 48 e32 e25 e26 e40 48 e29 e24 e25 e45 44 e24 e24 e25 e45 31 e26 e23 e26 e50 32 e24 e22 e25 e26 e40 e29 e25 e26 e24 e10 e29 e25 e26 e23 e110 e29 e25 e26 e23 e10 e29 e25 e26 e23 e10 e29 e25 e26 e23 e10 e30 e26 e23 e27 e23 e110 e29 e23 e27 e23 e110 e29 e23 e27 e23 e10 e30 e26 e23 e25 127 e30 e27 e23 e26 151 e31 e27 e27 e23 e26 151 e31 e27 e27 e25 e26 193 e31 e26 e24 e24 e24 e30 e27 e25 e26 e24 e20 e30 e27 e25 e26 e24 e20 e30 e27 e25 e26 e24 e28 e30 e27 e25 e26 e24 e29 e29 e26 e24 e22 e28 e35 e31 e26 e24 e24 e29 e29 e26 e24 e27 e27 e25 173 e33 e27 e25 e26 193 e31 e26 e24 e24 e24 e29 e24 e22 e28 e35 e31 e26 e24 e27 e27 e25 e30 e31 e26 e24 e24 e29 e29 e26 e24 e27 e27 e25 e26 e39 e30 e27 e25 e26 193 e31 e26 e24 e24 e27 e29 e30 e27 e25 e25 e26 180 e31 e26 e24 e27 e27 e24 248 e30 e28 e25 e24 264 e29 e24 e22 e28 255 e29 e23 e24 e27 e27 e24 248 e30 e28 e25 e24 264 e29 e24 e22 e28 252 e29 e23 e24 e27 e27 e24 248 e30 e28 e25 e24 264 e29 e24 e22 e28 252 e29 e23 e24 e27 e27 e24 248 e30 e28 e25 e24 264 e29 e24 e22 e28 252 e29 e23 e24 e27 1777 e24 e28 192  1,182 830 767 727 3,843 39.4 26.8 24.7 25.1 124 29 21 20 20 28 2,340 1,650 1,520 1,440 7,620  DNTHLY MEAN DATA FOR WATER YEARS 1910 - 2004, BY W 57.1 43.2 37.2 40.0 63.8 151 106 88.6 78.3 131 e10 88.6 May 29 EAN 13 Feb 7  FOR 2003 CALENDAR YEAR  MEAN 18AN 13 Feb 7  AY MINIMUM 16 Feb 4  EDS 273 440  EDS 274 625 EAN 13 Feb 7  AY MINIMUM 16 Feb 4  EDS 273 440 EDS 273 424  EDS 44 627  A4940 EDS 273 425	NOV DEC JAN FEB MAR APR  40 e31 e26 e26 e28 219 69 e31 e28 e26 e30 232 102 e29 e27 e28 e29 236 73 e28 e24 e29 e33 217 51 e30 e20 e27 e32 e25 e35 204 49 e31 e22 e25 e36 e40 200 48 e32 e25 e26 e40 200 48 e32 e25 e26 e40 200 48 e32 e25 e26 e40 190 33 e26 e23 e24 e29 e33 31 e26 e23 e24 e29 e37 44 e24 e24 e25 e45 198 44 e24 e24 e25 e45 198 31 e26 e23 e26 e60 179 32 e24 e25 e46 e70 33 e26 e23 e24 e60 179 32 e24 e25 e46 e70 33 e26 e23 e24 e60 179 32 e24 e25 e26 e80 173 631 e26 e23 e24 e60 179 631 e29 e25 e26 e23 e110 189 629 e25 e26 e23 e110 189 629 e25 e26 e23 e110 189 629 e23 e27 e23 e120 214 632 e25 e26 e24 e120 238 e30 e26 e23 e26 e50 181 e30 e26 e23 e27 e23 e120 214 632 e25 e26 e24 e120 238 e30 e26 e23 e25 e26 e24 e120 238 e30 e27 e23 e26 151 235 e31 e27 e27 e25 173 234 e33 e27 e25 e26 e26 193 233 e31 e27 e27 e25 e26 24 220 226 e29 e26 e24 e24 e24 220 226 e29 e26 e24 e24 e24 220 226 e29 e26 e24 e24 e23 233 222 e30 e27 e27 e25 e25 243 203 e30 e27 e27 e25 e25 243 203 e31 e27 e27 e25 e25 243 203 e31 e27 e27 e25 e25 23 233 e31 e27 e27 e27 e24 248 206 e39 e26 e24 e24 e24 220 226 e39 e26 e24 e24 e24 220 226 e39 e26 e24 e22 e28 252 233 e30 e21 e26 e26 180 320 e30 e28 e25 e26 26 180 320 e30 e21 e26 e26 180 320 e30 e21 e26 e26 180 320 e30 e21 e26 e26 180 320 e31 e24 e27 177 317 e24 e28 192 1,182 830 767 727 3,843 6,620 339,4 266,8 247, 25,1 124 221 102 33 28 29 264 320 e30 e21 e26 e26 180 320 e31 e24 e27 177 317 e24 e28 192 1,182 830 767 727 3,843 6,620 339,4 266,8 247, 25,1 124 221 102 33 28 29 264 320 e30 e21 e20 e26 e26 180 320 e31 e24 e27 177 317 e24 e28 192  1,182 830 767 727 3,843 6,620 339,4 266,8 247, 25,1 124 221 102 33 28 29 264 320 e30 e21 e20 e20 e28 173 e31 e27 e27 e27 e28 e28 255 e330 e21 e20 e20 e28 173 e33 e26	NOV DEC JAN FEB MAR APR MAY  40 e31 e26 e26 e26 e28 219 292 69 e31 e28 e26 e30 232 297 73 e28 e24 e29 e33 217 434 51 e30 e20 e27 e28 e29 e33 217 434 51 e30 e20 e27 e32 204 558 49 e31 e22 e25 e30 202 709 48 e33 e26 e25 e35 204 860 46 e32 e25 e26 e40 200 947 48 e29 e24 e25 e45 198 986 44 e29 e24 e25 e45 198 986 44 e24 e24 e25 e45 198 986 31 e26 e23 e26 e50 188 1,100 33 e26 e23 e24 e60 179 996 31 e26 e23 e24 e60 179 996 31 e26 e23 e24 e60 179 996 32 e24 e25 e36 20 188 1,100 33 e26 e23 e24 e60 179 996 31 e26 e23 e24 e50 188 1,100 32 e24 e25 e45 198 986 e29 e25 e26 e23 e21 e30 22 e90 181 643 e29 e25 e26 e23 e21 e30 214 737 e31 e26 e23 e24 e50 173 763 e31 e26 e23 e27 e23 e100 189 638 e29 e23 e27 e23 e100 189 638 e29 e23 e27 e23 e100 189 638 e30 e26 e23 e25 e26 e24 e120 238 863 e30 e27 e23 e26 e151 235 1,130 e31 e27 e27 e23 e26 151 235 1,130 e31 e27 e27 e27 e27 e27 23 e26 151 235 1,130 e31 e27 e27 e27 e27 e27 23 e26 151 235 1,130 e31 e27 e27 e27 e28 173 234 1,190 e33 e27 e25 e26 e24 e24 200 226 1,100 e33 e27 e25 e26 e24 e24 200 226 1,100 e39 e26 e24 e24 e27 200 226 1,100 e39 e26 e24 e24 e27 200 226 1,100 e39 e26 e24 e24 e27 208 278 857 e30 e27 e25 e26 e26 180 320 956 e30 e27 e25 e26 e24 24 24 20 226 21,100 e31 e26 e28 e25 e24 264 24 21 20 238 863 e30 e27 e25 e26 e24 e24 220 226 1,100 e31 e26 e28 e25 e24 264 24 29 20 266 1,100 e31 e26 e28 e25 e24 264 28 27 208 278 857 e30 e29 e23 e24 e27 208 278 857 e30 e29 e23 e24 e27 208 278 857 e30 e21 e26 e24 e27 208 278 857 e30 e29 e23 e24 e27 208 278 857 e30 e29 e23 e24 e27 208 278 857 e30 e21 e26 e24 e27 208 278 857 e30 e21 e26 e26 e36 180 320 956 e31 e24 e27 e28 e28 252 233 776 e32 e27 e25 e25 243 203 350 200 956 e31 e24 e27 e28 e28 252 233 776 e32 e29 e23 e24 e27 208 278 857 e30 e21 e26 e24 e24 229 226 e18 264 264 264 264 264 264 264 264 264 264	NOV   DEC   JAN   FEB   MAR   APR   MAY   JUN	NOV DEC JAN FEB MAR APR MAY JUN JUL 40 e31 e26 e26 e26 e28 219 202 735 204 101 2 e29 e27 e28 e29 e33 217 434 923 127 51 e30 e20 e27 e28 e29 e33 217 434 923 127 51 e30 e20 e27 e32 204 558 956 120 44 e23 e25 e30 202 709 266 113 48 e33 e26 e25 e35 204 860 974 103 48 e23 e25 e25 e26 e30 202 709 266 113 48 e33 e26 e25 e35 204 860 974 103 48 e29 e34 e29 e34 e25 e36 200 947 941 99 448 e31 e22 e25 e30 202 709 926 113 48 e23 e25 e25 e26 e40 200 947 941 99 448 e29 e24 e25 e35 198 986 834 98 44 e24 e24 e25 e50 190 1,030 754 96 33 e26 e23 e26 e50 190 1,030 754 96 33 e26 e23 e26 e50 190 1,030 754 96 33 e26 e23 e24 e60 179 996 537 91 22 e29 e25 e26 e26 e27 e80 179 996 537 91 22 e29 e25 e26 e26 e27 e80 179 996 537 91 22 e29 e25 e26 e26 e23 e110 189 638 488 71 e29 e25 e26 e23 e110 189 638 488 71 e29 e25 e26 e26 e23 e110 189 638 488 71 e29 e25 e26 e26 e23 e110 189 638 488 71 e29 e25 e26 e26 e23 e120 238 863 417 78 e29 e25 e26 e26 e23 e120 238 863 417 78 e29 e25 e26 e26 e23 e120 238 863 417 78 e23 e25 e25 e26 e24 e120 238 863 417 78 e23 e25 e25 e26 e24 e120 238 863 417 78 e23 e25 e25 e26 e24 e120 238 863 417 78 e23 e25 e25 e26 e24 e120 238 863 417 78 e23 e25 e25 e26 e24 e120 238 863 417 78 e23 e25 e25 e26 e24 e120 238 863 417 78 e23 e27 e27 e25 e151 235 1,130 365 74 e23 e29 e26 e24 e24 e24 220 e25 e26 e24 e120 238 863 417 78 e31 e27 e27 e25 e25 e25 243 200 e26 13 e27 e27 e25 e25 e25 e26 e24 e24 e27 e25 e177 e25 e25 e25 e26 e24 e27 e27 e25 e25 e26 e24 e27 e27 e25 e27 e27 e25 e27 e27 e25 e27 e27 e27 e27 e28 e27 e27 e27 e28 e27 e27 e27 e28 e27 e27 e27 e28 e27 e28 e29 e29 e23 e24 e27 e27 e27 e28 e27 e27 e28 e28 e29 e29 e23 e24 e27 e27 e28 e27 e27 e27 e28 e28 e29 e29 e23 e24 e27 e27 e27 e28 e27 e27 e27 e28 e28 e29 e29 e23 e24 e27 e27 e27 e28 e27 e27 e28 e28 e29 e29 e23 e24 e26 e27 e27 e27 e28 e27 e27 e27 e28 e28 e28 e	NOV   DEC   JAN   FEB   MAR   APR   MAY   JUN   JUL   AUG

e Estimated.

a Present site and datum, from rating curve extended above 1,500 ft<sup>3</sup>/s.

b From floodmarks.

188 RIO GRANDE BASIN

#### 08220000 RIO GRANDE NEAR DEL NORTE, CO

 $LOCATION.--Lat~37^{\circ}41'22'', long~106^{\circ}27'38'', in~NW^{1}_{4}NW^{1}_{4}~sec.29, T.40~N., R.5~E., Rio~Grande~County, Hydrologic~Unit~13010001, on~right~bank~40~ft~(revised)~downstream~from~county~highway~bridge, 5.0~mi~upstream~from~Pinos~Creek, and 6.0~mi~west~of~Del~Norte.$ 

DRAINAGE AREA.--1,320 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--June 1889 to current year. Monthly discharge only for some periods, published in WSP 1312. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=08220000

REVISED RECORDS.--WSP 763: Drainage area. WSP 1312: 1889, 1901, 1913-14 (monthly discharge and runoff).

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 7,980.25 ft above NGVD of 1929. Prior to May 16, 1908, nonrecording gage at site 4 mi downstream at different datum. May 16, 1908 to Nov. 8, 1910, nonrecording gages on bridge at present site and datum.

REMARKS.—Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, transmountain diversions from Colorado River Basin (see elsewhere in this report), diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants. Flow regulated by Beaver Creek Reservoir since 1910, Santa Maria Reservoir since 1912, Rio Grande Reservoir since 1912, and Continental Reservoir since 1925, combined capacity, 126,100 acre-ft, and by several smaller reservoirs.

COOPERATION .-- Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

EXTREMES OUTSIDE PERIOD OF RECORD. -- Maximum stage of Oct. 5, 1911, is the greatest since at least 1873, from information obtained from local residents in 1959.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	229	205	e170	e140	e130	e160	542	911	2,680	1,040	375	187
2	227	281	e170	e150	e120	e140	659	920	2,720	940	357	182
3	252	362	e160	e140	e130	e150	739	947	3,240	860	370	178
4	303	327	e160	e120	e140	e170	695	1,180	3,510	776	348	231
5	320	244	e160	e100	e140	e140	665	1,490	3,570	719	311	489
6	318	232	e160	e110	e130	e150	657	2,030	3,380	650	318	391
7	288	234	e180	e120	e120	153	638	2,590	3,640	608	347	392
8	256	243	e170	e120	e130	163	625	2,950	3,660	582	341	323
9	235	242	e150	e130	e130	184	639	3,010	3,410	553	304	260
10	228	240	e140	e130	e130	205	633	3,300	3,110	539	302	236
11	227	232	e140	e130	e130	230	623	3,620	2,650	541	282	245
12	218	193	e150	e130	e110	277	586	3,570	2,170	520	263	232
13	215	190	e130	e130	e110	299	528	2,970	1,810	494	246	225
14	226	187	e150	e120	e130	305	524	2,630	2,210	461	232	215
15	234	173	e150	e130	e130	341	534	2,280	2,540	440	244	210
16	231	166	e130	e140	e130	323	594	2,110	2,410	441	235	202
17	209	188	e140	e130	e140	326	657	2,560	1,960	480	236	200
18	199	182	e150	e130	e150	356	682	3,130	1,640	495	259	187
19	198	163	e150	e130	e170	412	667	3,710	1,580	480	280	236
20	201	171	e150	e130	e160	494	669	4,030	1,480	495	279	2,010
21	204	180	e160	e120	e160	534	668	4,270	1,420	531	282	1,940
22	210	191	e150	e110	e160	590	672	4,100	1,620	512	299	1,720
23	197	e120	e140	e110	e160	620	705	3,470	1,590	510	284	1,150
24	186	130	e140	e120	e160	598	648	3,160	1,460	675	241	829
25	181	e160	e140	e130	e160	613	676	3,300	1,380	607	225	709
26 27 28 29 30 31	179 178 191 191 192 192	e150 e140 e140 e150 e180	e150 e130 e130 e110 e120 e130	e120 e110 e120 e130 e130 e140	e160 e180 e160 e150	681 657 545 470 470 471	677 702 759 866 941	3,260 3,480 3,610 3,930 3,460 2,770	1,360 1,060 979 994 1,140	633 570 484 468 428 401	223 218 218 206 197 195	663 608 579 565 598
TOTAL	6,915	5,996	4,560	3,900	4,110	11,227	19,870	88,748	66,373	17,933	8,517	16,192
MEAN	223	200	147	126	142	362	662	2,863	2,212	578	275	540
MAX	320	362	180	150	180	681	941	4,270	3,660	1,040	375	2,010
MIN	178	120	110	100	110	140	524	911	979	401	195	178
AC-FT	13,720	11,890	9,040	7,740	8,150	22,270	39,410	176,000	131,700	35,570	16,890	32,120
MEAN	481	283	205	188	195	272	761	2,509	3,101	1,402	778	512
MAX	2,451	804	420	340	300	646	1,999	4,449	6,240	3,451	1,800	2,001
(WY)	(1912)	(1917)	(1926)	(1912)	(1928)	(1910)	(1895)	(1922)	(1921)	(1957)	(1999)	(1927)
MIN	134	114	99.2	89.8	111	153	317	505	222	142	117	135
(WY)	(1957)	(1957)	(2003)	(1977)	(1977)	(1965)	(1951)	(2002)	(2002)	(2002)	(2002)	(1956)
SUMMAR	Y STATIST	ICS		FOR 2003 CA	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 18	90 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW		И	3,480 e90 99	May Feb Feb	7	254,34 69 4,27 e10	70 May 70 Jan 17 Jan	5 21	1,4 2 14,0	74 N 76 D	1987 2002 Oct 6, 1911 Iov 16, 1956 Oec 29, 1976	
MAXIMU ANNUAL 10 PERCE 50 PERCE	M PEAK FL M PEAK ST RUNOFF (A NT EXCEEI NT EXCEEI	AGE AC-FT) OS OS		319,200 847 207 120			4,45 504,50 2,32 25 13	4.13 May 00 20 58		3	6.80	Oct 5, 1911 Oct 5, 1911

e Estimated.

a From rating curve extended above 12,900 ft<sup>3</sup>/s.

#### RIO GRANDE BASIN 189

#### CLOSED BASIN IN SAN LUIS VALLEY, CO

#### 08224500 KERBER CREEK ABOVE LITTLE KERBER CREEK NEAR VILLA GROVE, CO

LOCATION.--Lat 38°13'13", long 106°05'21", in SW  $^{1}_{4}$ SE  $^{1}_{4}$  sec.21, T.46 N., R.8 E., Saguache County, Hydrologic Unit 13010003, on left bank 3.0 mi upstream from Little Kerber Creek, and 7 mi west of Villa Grove.

PERIOD OF RECORD.—November 1911 to June 1912 and June 1923 to September 1926 (published as Kerber Creek near Villa Grove). May 1936 to September 1982, October 1998 to current year. Published as "at Ashley Ranch" May 1936 to September 1982 and October 1998 to September 2001. Monthly discharge only for some periods, published in WSP 1312. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=08224500

REVISED RECORDS .-- WSP 1312: 1943. WSP 1512: 1943.

GAGE.—Water-stage recorder with satellite telemetry and concrete control. Elevation of gage is 8,640 ft above NGVD of 1929, from topographic map. Prior to June 1, 1923, nonrecording gage at site 2.5 mi downstream at different datum. June 1, 1923 to Sept. 16, 1926, and May 2, 1936 to June 24, 2002, at several sites 1.5 mi upstream, at different

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by several small diversions for irrigation, and return flow from irrigated areas.

COOPERATION .- Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1872, that of May 14, 1941, from information by local residents.

					R YEAR OC'	, CUBIC FEI TOBER 2003 LY MEAN V	TO SEPTEM					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	2.8 3.8 5.1 6.1 4.6	2.7 3.1 3.9 2.8 1.9	e2.8 e2.9 e2.6 e2.5 e2.6	e1.8 e2.0 e1.8 e1.6 e1.5	e2.2 e2.3 e2.3 e2.3 e2.1	e2.6 e2.8 e2.7 e3.0 e2.9	8.1 8.6 8.7 8.2 8.9	19 20 21 27 35	28 27 27 27 27 28	7.6 6.8 6.3 5.9 5.7	4.7 4.4 4.4 3.9 4.0	2.3 2.3 2.1 3.4 3.2
6 7 8 9 10	4.3 3.7 3.2 3.1 3.0	2.7 3.2 2.9 2.8 2.8	e2.7 e2.7 e2.6 e2.4 e2.2	e1.7 e2.2 e2.5 e2.3 e2.4	e1.9 e1.8 e2.0 e1.9 e1.9	e2.9 e3.2 e3.0 e3.2 e3.2	11 9.3 11 11 9.1	41 46 51 55 59	28 28 26 26 24	5.5 5.2 5.1 4.8 4.7	3.7 3.3 3.0 2.7 2.8	2.6 2.2 2.0 2.0 2.0
11 12 13 14 15	3.0 2.8 2.8 2.5 2.7	2.7 2.7 3.2 2.9 2.4	e2.3 e2.2 e2.3 e2.3 e2.4	e2.3 e2.2 e2.2 e2.3 e2.4	e2.0 e1.8 e1.6 e1.8 e1.9	e3.1 e3.5 e3.5 e5.0	9.1 8.9 8.8 9.3 9.3	63 63 54 48 43	21 19 18 17 16	4.6 4.4 5.4 5.3 9.3	2.6 2.6 2.6 2.6 2.7	1.9 1.9 1.8 1.7 1.6
16 17 18 19 20	2.7 2.7 2.7 2.7 2.9	2.1 2.7 2.5 3.5 3.0	e2.3 e2.3 e2.4 e2.5 e2.3	e2.5 e2.4 e2.2 e2.2 e2.4	e1.8 e2.0 e2.2 e2.3 e2.2	e5.0 e5.0 e5.4 e6.0 e8.0	10 11 12 11 11	40 40 41 45 47	15 15 14 13 12	8.5 7.4 6.3 6.3 6.8	2.8 3.2 3.6 4.9 4.3	1.6 1.6 1.6 3.2 3.9
21 22 23 24 25	2.9 2.6 2.5 2.4 2.4	3.0 2.7 e2.5 e2.4 e2.5	e2.4 e2.5 e2.2 e1.9 e2.0	e2.2 e2.1 e2.0 e2.1 e2.2	e2.4 e2.4 e2.3 e2.6 e2.4	e7.8 e7.8 e7.8 e11 10	12 12 10 14 13	49 49 46 44 40	12 11 9.6 9.0 9.1	6.4 6.3 7.5 8.9 6.9	4.8 4.7 4.3 3.4 2.9	2.7 2.6 2.3 2.4 2.4
26 27 28 29 30 31	1.9 2.6 2.6 2.7 2.6 2.4	e2.6 e2.5 e2.4 e2.5 e2.7	e2.1 e1.8 e1.9 e1.8 e1.8 e1.9	e2.1 e2.1 e2.2 e2.3 e2.3 e2.4	e2.3 e2.4 e2.5 e2.5	9.9 9.2 8.0 7.5 7.4 7.6	12 13 14 15 18	37 35 35 36 35 32	9.1 9.7 8.6 8.2 9.4	8.7 9.7 7.4 8.3 6.2 5.5	2.6 2.5 2.9 2.5 2.2 2.3	2.6 2.5 2.5 2.6 2.8
TOTAL MEAN MAX MIN AC-FT	94.8 3.06 6.1 1.9 188	82.3 2.74 3.9 1.9 163	71.6 2.31 2.9 1.8 142	66.9 2.16 2.5 1.5 133	62.1 2.14 2.6 1.6 123	171.1 5.52 11 2.6 339	327.3 10.9 18 8.1 649	1,296 41.8 63 19 2,570	524.7 17.5 28 8.2 1,040	203.7 6.57 9.7 4.4 404	103.9 3.35 4.9 2.2 206	70.3 2.34 3.9 1.6 139
MEAN MAX (WY) MIN (WY)	4.79 16.1 (1939) 1.97 (2003)	THLY MEAN 4.16 10.0 (1958) 1.82 (1956)	2.95 6.50 (1966) 0.60 (2003)	2.64 6.00 (1966) 0.00 (1977)	3.02 6.00 (1958) 0.86 (1972)	5.01 12.0 (1924) 1.50 (1964)	14.6 44.4 (1924) 5.79 (2002)	45.4 130 (1942) 5.28 (2002)	37.8 102 (1941) 2.63 (2002)	11.8 61.9 (1957) 0.73 (2002)	7.73 42.3 (1957) 0.40 (2002)	4.99 25.6 (1957) 1.08 (1956)
SUMMAR	Y STATISTIC	CS		FOR 2003 C	CALENDAR Y	/EAR	FOR 20	04 WATER YI	EAR	(a)WATE	R YEARS 19	23 - 2004
ANNUAL ANNUAL HIGHEST ALOWEST ALOWEST I ANNUAL MAXIMUM ANNUAL 10 PERCET 50 PERCET	TOTAL	EAN EAN N N MINIMUM W GE C-FT) S S		2,58; 5: et et 5,12(	2.72 7.08 3 May 0.00 Jan 0.00 Jan	30 5	3,0	74.7 8.40 63 May e1.5 Jar 1.7 Sep 65 May 1.32 May	7 11 3 5 5 12 7 11	d	12.1 25.4 2.49 363 M b0.00 D c0.00 D	1924 2002 ay 14, 1941 ec 30, 1976 ec 30, 1976 ay 14, 1941 ay 14, 1941

e Estimated.

Estimated. Water years 1983, and 1994 to 1998 data were published by the Colorado Division of Water Resources. Station was not operated during water years 1984 to 1993. Also occurred Dec 31, 1976 to Jan 31, 1977, and Jan 5-19, 2003 (no flow estimated). Also occurred Jan 5-19, 2003 (no flow estimated). From rating curve extended above 140 ft<sup>3</sup>/s.

Maximum gage-height, 5.04 ft, May 11, 1947, site and datum then in use, backwater from beaver dam.

190 RIO GRANDE BASIN

#### CLOSED BASIN IN SAN LUIS VALLEY, CO

#### 08227000 SAGUACHE CREEK NEAR SAGUACHE, CO

LOCATION.--Lat 38°09'48", long 106°17'24", in SE\(^1/\_4\)SE\(^1/\_4\) sec.10, T.45 N., R.6 E., Saguache County, Hydrologic Unit 13010004, on left bank 0.2 mi downstream from Middle Creek and 10 mi northwest of Saguache.

DRAINAGE AREA.--595 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1910 to September 1912, June 1914 to September 1982, October 1990 to current year. Monthly discharge only for some periods, published in WSP 1312. October 1982 to September 1990, in reports of State Engineer. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/ co/nwis/inventory/?site\_no=08227000

REVISED RECORDS.--WSP 1242: 1948-49. WSP 1312: 1912, 1934(M), 1942(M), 1948-49(M). WSP 1923: 1951.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is about 8,030 ft above NGVD of 1929, from topographic map. Prior to Apr. 9, 1934, at sites 0.8 mi downstream at different datums. Apr. 10, 1934 to Nov. 20, 1966, at present site at datum 1.00 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions from Colorado River Basin through Tarbell Ditch (see elsewhere in this report), diversions for irrigation, and return flows from irrigated areas.

COOPERATION .-- Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

					YEAR OCT		ET PER SECO TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	24 26 30 35 34	26 30 32 30 22	e20 e20 e18 e18 e18	e20 e22 e19 e16 e13	e16 e17 e19 e20 e21	e18 e21 e22 e21 e22	36 39 53 52 45	81 76 70 77 93	125 124 135 137 139	97 73 69 68 63	49 48 50 49 47	28 27 27 30 41
6 7 8 9 10	32 31 29 28 29	21 24 34 30 34	e19 e20 e19 e18 e18	e14 e16 e20 e18 e18	e18 e17 e18 e17 e17	e22 e27 e27 e32 e32	48 49 52 58 51	104 108 114 120 131	141 153 149 149 142	60 60 60 58 56	49 49 46 40 37	40 34 31 30 29
11 12 13 14 15	28 27 27 27 27 27	32 28 32 32 28	e19 e19 e21 e20 e20	e17 e17 e17 e19 e20	e18 e16 e16 e18 e18	e33 e36 e38 41 46	50 55 45 43 41	133 141 132 119 113	126 115 108 100 104	55 53 53 49 52	35 34 33 32 31	30 30 28 27 24
16 17 18 19 20	26 26 26 26 27	23 22 24 21 e21	e18 e19 e20 e21 e21	e20 e19 e17 e17 e18	e18 e19 e20 e22 e20	41 42 44 46 52	42 45 50 50 46	110 114 117 128 142	111 100 95 89 88	57 70 83 78 88	33 34 35 39 39	23 23 24 27 44
21 22 23 24 25	25 25 24 25 25	e19 e18 e16 e16 e18	e21 e20 e19 e18 e18	e17 e16 e16 e17 e17	e19 e19 e19 e20 e18	55 53 49 45 43	46 49 51 62 76	152 155 146 139 136	89 94 88 74 73	89 70 69 85 69	37 42 43 38 35	55 45 38 35 35
26 27 28 29 30 31	24 25 27 27 27 27 27	e18 e16 e16 e18 e20	e19 e18 e18 e16 e20 e21	e16 e16 e17 e17 e17 e17	e16 e18 e18 e18	42 41 35 30 32 34	72 66 70 71 77	133 130 137 152 161 137	83 89 86 82 109	63 65 59 60 54 51	33 32 33 32 30 30	35 35 34 35 37
TOTAL MEAN MAX MIN AC-FT	846 27.3 35 24 1,680	721 24.0 34 16 1,430	594 19.2 21 16 1,180	540 17.4 22 13 1,070	530 18.3 22 16 1,050	1,122 36.2 55 18 2,230	1,590 53.0 77 36 3,150	3,801 123 161 70 7,540	3,297 110 153 73 6,540	2,036 65.7 97 49 4,040	1,194 38.5 50 30 2,370	981 32.7 55 23 1,950
MEAN MAX (WY) MIN (WY)	43.9 108 (1912) 20.6 (1979)	35.4 60.1 (1930) 16.4 (1978)	25.8 40.0 (1928) 13.9 (1978)	23.3 40.3 (1986) 12.2 (1978)	26.4 41.4 (1986) 13.4 (1966)	38.4 70.0 (1924) 21.5 (1964)	67.8 257 (1924) 34.2 (1978)	155 437 (1924) 27.8 (2002)	170 474 (1957) 15.3 (2002)	92.0 299 (1957) 12.7 (2002)	72.0 198 (1929) 13.3 (2002)	50.5 194 (1929) 15.0 (1956)
SUMMAR	Y STATIST	ICS		FOR 2003 CA	ALENDAR '	YEAR	FOR 200	4 WATER Y	EAR	(a) WATE	R YEARS 1	910 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU	MEAN ANNUAL M ANNUAL M DAILY ME DAILY MEA SEVEN-DA M PEAK FL M PEAK ST	IEAN AN AN Y MINIMUM OW AGE	1	12,151 33. 143 e13 e14	3 May Jan Jan	13	16 e1 e1	77.1 51 May 3 Jar 6 Jar 59 May 2.41 May	1 5 1 4 7 30	b1,2	7.0 J 8.3 J 220 .	1924 2002 Jun 7, 1957 Jan 7, 1977 Jan 6, 1977 Jul 25, 1999 Jul 25, 1999
10 PERCE 50 PERCE	RUNOFF (A ENT EXCEEI ENT EXCEEI ENT EXCEEI	OS OS		24,100 60 26 18						48,2 1	290 144 40 21	

e Estimated.

Estimates.
 Including water year 1983-1990 data published by State Engineer.
 From rating curve extended above 1,090 ft<sup>3</sup>/s.

# CLOSED BASIN IN SAN LUIS VALLEY, CO

#### 08231000 LA GARITA CREEK NEAR LA GARITA, CO

LOCATION.--Lat 37°48'48", long 106°19'05", in NW \(^1\_4\)SE \(^1\_4\) sec.9, T.41 N., R.6 E., Saguache County, Hydrologic Unit 13010004, on right bank 4.5 mi downstream from Little La Garita Creek and 4.5 mi southwest of La Garita.

DRAINAGE AREA.--61 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--April 1919 to September 1981. October 1998 to current year. No winter records prior to water year 1948 except water years 1926, 1941, and 1945-46. Monthly discharge only for some periods, published in WSP 1312. October 1981 to September 1998, in reports of State Engineer. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=08231000

REVISED RECORDS .-- WSP 1312: 1946(M).

GAGE.—Water-stage recorder with satellite telemetry and concrete weir. Elevation of gage is 8,030 ft above NGVD of 1929, from topographic map. Apr. 1, 1919 to June 23, 1927, nonrecording gages, and June 24, 1927 to Nov. 13, 1935, water-stage recorder, at sites within 0.2 mi downstream at different datums. Nov. 14, 1935 to Nov. 16, 1966, at detune 1,00 ft biology. at datum 1.00 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by diversions for irrigation and return flows from irrigated

COOPERATION .-- Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

					DISCHARGE R YEAR OCT DAII		TO SEPTEM					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	2.5 2.7 3.5 5.1 4.1	3.2 3.7 4.6 2.9 1.7	e2.1 e2.3 e1.9 e1.9 e1.7	e1.5 e1.8 e1.5 e1.2 e1.0	e1.5 e1.8 e1.8 e1.8 e1.6	e2.5 e2.6 e3.0 e3.0 e2.9	8.2 9.0 8.0 7.9	41 41 42 47 e58	39 37 35 34 32	27 17 14 13 12	12 11 12 11 10	4.9 4.7 5.0 6.5 7.8
6 7 8 9 10	3.9 3.4 3.1 2.7 2.7	2.3 3.1 3.6 3.2 3.2	e1.9 e2.1 e1.8 e1.5 e1.4	e1.4 e1.9 e1.8 e1.7	e1.3 e1.3 e1.5 e1.4 e1.4	e3.5 e4.0 e5.0 e5.4 e5.4	11 9.2 10 9.2 8.3	e66 e72 e82 e88 e94	32 31 29 28 28	11 11 10 9.7 9.3	11 10 8.9 7.5 7.0	5.8 4.9 4.4 4.3 4.4
11 12 13 14 15	2.7 2.7 2.6 2.6 2.5	3.2 2.5 3.7 2.9 2.7	e1.4 e1.5 e1.6 e1.5 e1.4	e1.7 e1.7 e1.7 e1.8 e2.0	e1.5 e1.3 e1.5 e1.6	e5.4 e6.0 e6.0 e6.0 e6.8	8.0 8.2 8.3 9.9	e98 e102 92 e86 e82	26 24 22 21 20	8.9 8.4 8.2 7.4 8.0	6.4 6.0 5.9 5.9 5.9	4.3 4.0 4.0 4.0 3.9
16 17 18 19 20	2.7 2.7 2.7 2.7 2.7	e2.3 e2.4 e2.5 e2.3 e2.0	e1.4 e1.6 e1.7 e1.7	e2.1 e1.9 e1.6 e1.6 e1.7	e1.6 e1.8 e2.0 e2.2 e2.0	e6.8 e7.0 e7.2 e7.2 7.5	14 17 21 21 19	e78 e76 e74 e72 e70	19 17 16 15 14	10 13 14 17 27	6.0 5.7 6.2 8.5 8.2	4.0 4.0 4.0 5.3
21 22 23 24 25	2.7 2.6 2.7 2.7 2.6	e2.1 e1.8 e1.5 e1.3 e1.7	e1.8 e1.6 e1.4 e1.3 e1.4	e1.5 e1.3 e1.3 e1.5 e1.5	e2.1 e2.1 e2.1 e2.3 e2.3	7.9 8.5 9.6 11 9.0	16 15 12 19 17	e68 e70 e66 e64 60	14 16 14 13	17 15 14 16 15	6.5 8.8 8.1 6.2 5.9	6.4 5.3 5.4 5.2 5.1
26 27 28 29 30 31	2.1 2.5 2.9 2.7 2.7 2.5	e1.8 e1.5 e1.5 e1.9 e2.1	e1.6 e1.3 e1.3 e1.2 e1.3 e1.5	e1.4 e1.3 e1.5 e1.7 e1.7	e2.1 e2.3 e2.3 e2.2	11 10 7.1 6.8 7.1 7.6	20 29 38 43 41	57 54 50 51 47 42	14 15 14 13 31	14 14 14 14 13 12	5.5 5.3 5.9 5.5 4.8 4.7	5.2 5.0 4.7 5.3 5.3
TOTAL MEAN MAX MIN AC-FT	89.0 2.87 5.1 2.1 177	75.2 2.51 4.6 1.3 149	49.8 1.61 2.3 1.2 99	49.7 1.60 2.1 1.0 99	52.0 1.79 2.3 1.3	198.8 6.41 11 2.5 394	478.2 15.9 43 7.9 949	2,090 67.4 102 41 4,150	676 22.5 39 13 1,340	413.9 13.4 27 7.4 821	232.3 7.49 12 4.7 461	154.1 5.14 11 3.9 306
					EARS 1919 -							
MEAN MAX (WY) MIN (WY)	6.86 42.6 (1924) 1.46 (1957)	5.14 18.5 (1970) 1.80 (1941)	3.83 8.72 (1970) 0.70 (1964)	3.29 6.60 (1966) 0.50 (1964)	3.95 8.00 (1962) 0.50 (1964)	5.77 9.94 (1972) 1.50 (1964)	16.9 126 (1924) 6.08 (1978)	46.3 211 (1924) 4.26 (2002)	30.3 126 (1921) 2.17 (2002)	14.5 65.3 (1921) 1.81 (2002)	15.2 70.2 (1929) 1.65 (2002)	8.55 52.4 (1923) 0.85 (1956)
SUMMAR	Y STATISTIC	CS		FOR 2003 C	CALENDAR Y	EAR	FOR 20	04 WATER YI	EAR	(a)WATE	R YEARS 19	919 - 2004
LOWEST A HIGHEST LOWEST I ANNUAL MAXIMUI MAXIMUI ANNUAL 10 PERCEI 50 PERCEI		EAN N N MINIMUM OW GE C-FT) S		2.79 2,79	3.86 3 Apr 1 0.98 Feb 1.2 Feb	15 7 4	el- 1 9,0	e1.0 Jar e1.3 Dec 14 May 2.92 May	1 5 2 2 4 7 1 2	c	b0.20 S 0.43 S 530 .	1941 2002 ay 16, 1941 ep 28, 1956 ep 27, 1956 Jul 9, 1957 Jul 9, 1957

Estimated.

Water years 1919-1981 and 1999 to current year.
 Also occurred Sep 29, 1956.
 From rating curve extended above 140 ft<sup>3</sup>/s.

From rating curve extended above 140 IT /s.
 Present datum; maximum gage height, 5.11 ft, May 16, 1941, datum then in use.

192 RIO GRANDE BASIN

#### CLOSED BASIN IN SAN LUIS VALLEY, CO

#### 372833105455800 CLOSED BASIN PROJECT CANAL NEAR ALAMOSA, CO

 $LOCATION.--Lat\ 37^{\circ}28^{\circ}33^{\circ}, long\ 105^{\circ}45^{\circ}58^{\circ}, in\ SW^{1}_{4}SW^{1}_{4}sec.3, T.37\ N., R.11\ E., Alamosa\ County,\ Hydrologic\ Unit\ 13010002,\ on\ right\ bank\ of\ Closed\ Basin\ Project\ Canal,\ 400\ ft\ north\ of\ State\ Highway\ 160,\ and\ 5.5\ mi\ east\ of\ Alamosa.$ 

DRAINAGE AREA .-- Indeterminate.

PERIOD OF RECORD.--October 1998 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=372833105455800

GAGE.—Water-stage recorders with satellite telemetry and 12 ft Parshall flume. Elevation of gage is 7,531.15 ft above NGVD of 1929 (levels by U.S. Bureau of Reclamation).

REMARKS.—Records good except for estimated daily discharges, which are fair. The Closed Basin Project Canal delivers water from the Closed Basin in the San Luis Valley to the Rio Grande just downstream from Alamosa. Shallow (unconfined) aquifer water is pumped into the canal by a system of pumps.

COOPERATION .-- Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

					R YEAR OC		ET PER SECO 3 TO SEPTEM VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	19 21 22 23 23	19 23 22 28 28	24 24 24 20 19	23 23 23 24 24	21 21 21 21 21	18 18 17 17	12 13 13 13 14	16 16 16 17 19	16 15 16 16 18	22 20 18 17 17	10 8.3 6.6 5.9 5.9	13 17 18 22 22
6 7 8 9 10	24 23 22 19 17	27 30 28 27 25	18 19 27 25 23	23 22 23 23 24	21 21 21 20 20	17 18 18 17 16	15 15 15 16 17	20 19 19 18 16	17 17 16 17 17	17 17 16 16 16	6.5 6.7 6.4 6.2 8.3	23 22 26 27 26
11 12 13 14 15	19 20 20 19 19	19 19 20 23 28	24 25 24 24 23	24 24 23 e23 22	20 20 20 20 20 20	15 15 15 15 15	17 17 17 17 16	15 15 16 17 17	18 18 19 19	16 15 14 13 12	8.3 9.0 9.0 8.7 8.5	24 23 22 22 23
16 17 18 19 20	17 16 16 16 16	27 25 23 23 22	22 22 24 25 26	22 23 23 23 23 23	20 20 19 20 20	17 17 15 14 11	17 17 16 16 16	18 19 25 22 19	18 18 19 18	12 11 11 11 12	8.2 7.8 7.7 7.9 8.1	22 22 22 21 21
21 22 23 24 25	17 17 18 18 16	17 16 16 16 19	25 24 24 23 22	23 22 22 21 21	20 20 20 20 20 20	8.7 8.8 13 15 16	17 18 19 18	21 20 19 17	20 19 20 20 19	12 12 11 10 11	8.4 8.8 9.0 8.9 9.7	21 21 19 17 17
26 27 28 29 30 31	18 21 21 20 19	28 27 25 24 24	22 22 22 22 22 22 22	21 21 21 21 22 22	20 20 19 19	16 16 15 14 14 13	18 18 17 17 17	17 18 16 16 19	20 22 22 22 22 23	12 11 11 11 11	9.9 10 9.9 10 9.9 11	17 17 17 18 17
TOTAL MEAN MAX MIN AC-FT	595 19.2 24 16 1,180	698 23.3 30 16 1,380	712 23.0 27 18 1,410	699 22.5 24 21 1,390	585 20.2 21 19 1,160	471.5 15.2 18 8.7 935	486 16.2 19 12 964	556 17.9 25 15 1,100	557 18.6 23 15 1,100	426 13.7 22 10 845	259.5 8.37 11 5.9 515	619 20.6 27 13 1,230
MEAN MAX (WY) MIN (WY)	22.0 35.0 (2000) 11.2 (2001)	22.6 31.6 (1999) 11.3 (2003)	25.6 35.7 (1999) 10.4 (2003)	31.1 42.4 (1999) 22.5 (2004)	30.7 38.1 (1999) 20.2 (2004)	28.0 33.0 (2003) 15.2 (2004)	27.0 34.7 (1999) 16.2 (2004)	24.9 34.3 (1999) 17.9 (2004)	24.1 32.9 (1999) 17.7 (2002)	21.1 35.1 (1999) 13.7 (2004)	18.8 28.1 (1999) 8.37 (2004)	20.9 33.0 (1999) 11.9 (2003)
SUMMAR	Y STATIST	ICS		FOR 2003 C	ALENDAR	YEAR	FOR 200	)4 WATER Y	EAR	WATER	YEARS 19	99 - 2004
ANNUAL ANNUAL HIGHEST LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE 50 PERCE	TOTAL	IEAN EAN AN N Y MINIMUN OW AGE .C-FT) OS	1	8,818 24 36 5	.5 .2 Mar .0 Sep .4 Sep	19 13	6,60	54.0 18.2 30 Nov 5.9 Aug 6.3 Aug 31 Nov 0.77 Nov	7 4 3 6		24.7 33.8 18.2 63 E 5.0 S 5.4 S 101 E a1.70 E	1999 2004 Dec 21, 1998 ep 13, 2003 ep 11, 2003 ec 21, 1998 ec 21, 1998

e Estimated.

a Maximum gage height, 1.92 ft, Jan 29, 2002, backwater from ice.

# 08242500 UTE CREEK NEAR FORT GARLAND, CO

LOCATION .-- Lat 37°26'50", long 105°25'33", Costilla County, Hydrologic Unit 13010002, in Sangre de Cristo Grant, on left bank 2,300 ft upstream from Newton Ditch, 1.4 mi north of Fort Garland, and 5.7 mi upstream from mouth.

DRAINAGE AREA.--32 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--March to October 1916, May 1923 to September 1981, October 1998 to current year. Monthly discharge only for some periods, published in WSP 1312. October 1981 to September 1998, in reports of State Engineer. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=08242500

GAGE.--Water-stage recorder with satellite telemetry. Concrete control since Sept. 1973. Elevation of gage is 8,045 ft above NGVD of 1929, from topographic map. Mar. 18 to Oct. 9, 1916, nonrecording gage and Cippoletti weir at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by diversions for irrigation and return flows from irrigated areas.

DISCHARGE, CUBIC FEET PER SECOND

COOPERATION .-- Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

EXTREMES OUTSIDE PERIOD OF RECORD.--Outstanding floods occurred in 1886 and in October 1911. The flood in 1886 probably exceeded the flood in October 1911 which has probably not yet been exceeded, from information by local residents.

					R YEAR OC'		ET PER SECO 3 TO SEPTEM /ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	6.6 6.8 7.9 11 13	7.8 8.3 8.5 7.7 6.9	e6.0 e6.4 e6.0 e5.8 e6.0	e6.2 e6.4 e6.0 e5.6 e5.2	e4.3 e4.7 e5.2 e5.4 e4.6	e5.6 e5.6 e6.6 e6.4 e6.2	16 19 20 18 16	28 29 27 30 39	37 37 43 50 52	25 20 17 16 14	32 28 26 23 24	12 10 10 12 15
6 7 8 9 10	12 11 11 11 10	7.6 8.0 7.8 7.6 7.6	e6.2 e6.4 e6.0 e5.6 e5.4	e4.9 e5.4 e6.0 e5.6 e5.4	e3.9 e4.0 e4.4 e4.2 e4.0	e6.2 e6.4 e6.0 e6.2 e7.6	12 14 16 17	55 66 74 75 81	50 50 47 43 37	13 13 12 11	23 20 17 15 13	13 11 10 10 10
11 12 13 14 15	11 10 10 9.9 9.9	7.5 7.4 8.2 8.1 7.5	e5.6 e6.2 e5.8 e6.2 e5.8	e5.4 e5.2 e5.2 e5.2 e5.6	e4.2 e3.8 e3.6 e3.9 e4.2	e7.2 e7.6 e8.4 e8.4 e9.0	16 15 15 16 16	86 82 65 58 55	31 29 26 24 23	8.8 8.0 8.5 7.9 9.2	12 13 13 14 16	9.7 9.4 9.0 8.0 7.9
16 17 18 19 20	9.9 9.6 9.3 9.3	7.4 7.7 6.4 7.1 7.7	e5.6 e5.4 e5.6 e5.8 e6.0	e6.0 e5.8 e5.2 e5.6 e6.0	e4.2 e4.6 e5.0 e5.6 e5.4	e9.0 e9.6 e9.6 9.8	17 18 20 19 17	57 60 62 69 68	22 21 20 19 20	10 15 26 42 112	13 12 13 15 15	8.1 8.0 7.7 30 124
21 22 23 24 25	9.0 8.8 8.5 8.4 8.4	7.6 7.1 2.8 3.6 7.0	e6.4 e6.0 e5.2 e4.4 e5.2	e5.6 e5.2 e5.0 e4.7 e5.4	e5.8 e5.4 e5.4 e6.0 e5.6	13 16 17 18 19	16 14 12 19 21	68 70 62 54 47	18 18 16 15 14	76 65 50 45 47	20 28 20 17 16	54 37 30 26 22
26 27 28 29 30 31	7.3 8.5 8.5 8.2 8.1 7.8	7.4 e6.0 e5.4 e6.0 e6.2	e6.0 e5.6 e5.2 e5.4 e5.4 e5.8	e5.2 e5.0 e4.8 e5.2 e5.2 e5.4	e5.2 e6.2 e5.8 e5.4	20 22 18 16 15	18 19 20 20 23	43 44 50 57 48 40	14 16 17 22 31	50 60 57 51 43 37	14 13 14 13 12 12	20 18 17 15 16
TOTAL MEAN MAX MIN AC-FT	289.7 9.35 13 6.6 575	211.9 7.06 8.5 2.8 420	178.4 5.75 6.4 4.4 354	168.6 5.44 6.4 4.7 334	140.0 4.83 6.2 3.6 278	341.4 11.0 22 5.6 677	516 17.2 23 12 1,020	1,749 56.4 86 27 3,470	862 28.7 52 14 1,710	980.4 31.6 112 7.9 1,940	536 17.3 32 12 1,060	589.8 19.7 124 7.7 1,170
MEAN MAX (WY) MIN (WY)	9.85 34.8 (1924) 0.91 (1957)	7.61 25.3 (1924) 0.78 (1952)	5.10 10.5 (1971) 0.50 (1957)	4.57 9.50 (1962) 1.60 (1957)	4.96 10.0 (1962) 2.00 (1956)	7.28 12.6 (1960) 3.16 (1957)	21.4 66.9 (1932) 4.69 (1955)	53.8 220 (1941) 4.80 (2002)	54.9 150 (1941) 1.29 (2002)	29.0 97.0 (1941) 0.30 (2002)	20.0 65.5 (1936) 0.00 (2002)	12.8 45.7 (1929) 0.07 (1956)
SUMMAR	Y STATIST	TCS		FOR 2003 C	CALENDAR	YEAR	FOR 200	04 WATER Y	EAR	(a)WATE	R YEARS 19	23 - 2004
LOWEST .		1EAN		6,758 18	3.5	30		17.9	p 20	,	19.3 50.2 3.88 530 Ma	1941 2002 ny 15, 1941
LOWEST I ANNUAL MAXIMUI MAXIMUI	DAILY ME. SEVEN-DA M PEAK FL M PEAK ST	AN AY MINIMUM OW AGE	1	el el	1.5 Feb 1.7 Feb	6	18	2.8 Nov e4.0 Fel 37 Sej 3.05 Sej	v 23 b 9 p 20 p 20	ct	b0.00 J 0.00 Se 530 Ma	ul 28, 1956 ep 6, 1956 ay 15, 1941
10 PERCE 50 PERCE	RUNOFF (A NT EXCEE NT EXCEE NT EXCEE	DS DS						20 47 10 5.2		13,9	990 52 8.2 3.7	

Estimated: Water years 1923-81 and 1999 to current year. Also occurred Jul 29-31 and Sep 5-29, 1956, and many days in 2002.

Maximum daily discharge.

194 RIO GRANDE BASIN

# 08245000 CONEJOS RIVER BELOW PLATORO RESERVOIR, CO

LOCATION .-- Lat 37°21'18", long 106°32'37", Conejos County, Hydrologic Unit 13010005, Rio Grande National Forest, on left bank 1,100 ft downstream from valvehouse for Platoro Reservoir and 0.7 mi northwest of Platoro.

DRAINAGE AREA.--40 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--May 1952 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=08245000

GAGE.--Water-stage recorder with satellite telemetry, and concrete control. Datum of gage is 9,866.60 ft above NGVD of 1929, (levels by U.S. Bureau of Reclamation).

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow completely regulated by Platoro Reservoir (station 08244500) 0.2 mi upstream since Nov. 7, 1951.

COOPERATION .-- Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

EXTREMES OUTSIDE PERIOD OF RECORD. -- Flood of Oct. 5, 1911, is the greatest since at least 1854, from information obtained from local residents in 1959.

					R YEAR OC		ET PER SECO TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	39 42 49 62 60	13 24 42 48 24	e8.5 e8.5 e8.5 e8.5 e8.5	e8.7 e8.7 e8.7 e8.7 e8.7	e8.5 e8.5 e8.4 e8.4	e8.3 e8.2 e8.2 e8.2 e8.2	e45 e58 e58 e58 e66	89 83 81 107 191	192 248 362 491 576	279 235 175 132 158	45 56 69 67 50	46 45 38 34 88
6 7 8 9 10	46 42 32 31 27	e7.9 e7.0 e7.0 e7.0 e7.0	e8.6 e8.6 e8.6 e8.6	e8.6 e8.6 e8.6 e8.6 e8.6	e8.4 e8.4 e8.4 e8.4	e8.2 e8.2 e8.2 e8.2 e8.2	68 41 29 35 49	251 314 344 342 384	553 462 461 487 400	180 152 133 123 126	56 75 104 98 67	120 72 32 34 41
11 12 13 14 15	24 30 28 26 19	e7.0 e7.0 e7.0 e7.0 e7.0	e8.6 e8.6 e8.6 e8.6	e8.6 e8.6 e8.6 e8.6	e8.4 e8.4 e8.4 e8.4	e8.2 e8.2 e8.2 e8.2 e8.2	51 33 e23 e23 e37	425 415 282 155 127	349 201 238 328 322	128 128 128 128 127	63 73 62 46 50	48 52 41 36 39
16 17 18 19 20	13 15 15 15 19	e7.0 e7.0 e7.7 e8.5 e8.5	e8.6 e8.6 e8.6 e8.7	e8.6 e8.6 e8.6 e8.5	e8.4 e8.3 e8.3 e8.3 e8.3	e8.1 e8.1 e8.1 e8.1	43 40 38 38 38	203 307 322 323 368	231 147 171 233 248	127 121 122 128 128	66 74 65 59 65	40 41 36 44 290
21 22 23 24 25	20 16 25 34 25	e8.5 e8.5 e8.5 e8.5 e8.5	e8.7 e8.7 e8.7 e8.7 e8.7	e8.5 e8.5 e8.5 e8.5 e8.5	e8.3 e8.3 e8.3 e8.3	e8.1 e8.1 e8.1 e33 e84	38 37 37 37 38	378 317 247 153 105	261 243 187 171 179	127 120 104 94 112	73 70 59 50 42	567 353 79 60 108
26 27 28 29 30 31	16 19 22 13 12 18	e8.5 e8.5 e8.5 e8.5 e8.5	e8.7 e8.7 e8.7 e8.7 e8.7	e8.5 e8.5 e8.5 e8.5 e8.5 e8.5	e8.3 e8.0 e8.3 e8.3	e94 e94 e94 e94 e59 e30	41 41 47 68 94	151 184 213 321 366 268	198 204 204 225 255	121 96 80 99 95 59	45 46 50 50 50 50	132 81 62 120 124
TOTAL MEAN MAX MIN AC-FT	854 27.5 62 12 1,690	345.6 11.5 48 7.0 685	267.3 8.62 8.7 8.5 530	265.9 8.58 8.7 8.5 527	242.2 8.35 8.5 8.0 480	769.9 24.8 94 8.1 1,530	1,349 45.0 94 23 2,680	7,816 252 425 81 15,500	8,827 294 576 147 17,510	4,065 131 279 59 8,060	1,898 61.2 104 42 3,760	2,903 96.8 567 32 5,760
MEAN MAX (WY) MIN (WY)	40.2 158 (1958) 1.92 (1957)	57.5 406 (1966) 2.00 (1957)	10.5 50.0 (1986) 2.00 (1957)	10.9 50.0 (1986) 3.20 (1991)	11.5 102 (1983) 3.00 (1957)	10.6 27.5 (1986) 3.00 (1957)	52.4 252 (1995) 3.00 (1957)	238 492 (1974) 16.9 (1958)	328 609 (1982) 87.0 (1977)	210 610 (1952) 18.6 (2002)	89.2 429 (1952) 3.90 (2002)	47.7 164 (1982) 3.34 (1956)
SUMMAI	RY STATIST	ICS		FOR 2003 C	'ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 195	2 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCI 50 PERCI		IEAN AN AN Y MINIMUM OW AGE AC-FT) OS	1	593 e6 6 49,230 186 24	3.0 3. Jun 5.0 Mar 5.1 Mar	23	57 62 58,72 24	76 Jur 67.0 Nov 70 Nov 11 Jur 3.22 Jur		1, 1, 66,	a0.00 O 0.16 O 160 No	1986 2002 ct 28, 1957 ct 16, 1955 ct 15, 1955 ov 1, 1957 ov 1, 1957

e Estimated. a Also occurred Oct 17-20, 1955.

b Maximum gage height, 4.29 ft, Jun 15, 1958.

#### 08246500 CONEJOS RIVER NEAR MOGOTE, CO

LOCATION.--Lat 37°03′14″, long 106°11′13″, in SE $^1/_4$ SE $^1/_4$ Sec.34, T.33 N., R.7 E., Conejos County, Hydrologic Unit 13010005, on left bank 75 ft downstream from bridge on State Highway 174, 0.4 mi downstream from Fox Creek, 5.3 mi west of Mogote, and 10 mi west of Antonito.

DRAINAGE AREA.--282 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1903 to October 1905, October 1911 to current year. Monthly discharge only for some periods, published in WSP 1312. Records for March 1900 at site 5.5 mi upstream and May 1905 to September 1911 (some missing periods most years) at site 3.2 mi upstream not equivalent to present site due to inflow. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=08246500

REVISED RECORDS.--WSP 898: 1911(M). WSP 1312: 1903-5 (monthly discharge and runoff).

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 8,269.39 ft above NGVD of 1929, Colorado State Highway datum. Apr. 17, 1903 to Oct. 31, 1905, nonrecording gage 400 ft downstream at different datum. Oct. 5, 1911 to early 1915, nonrecording gage, and from early 1915 to Oct. 1, 1988, water-stage recorder at site 100 ft upstream at datum 2.15 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by diversions for irrigation and return flows from irrigated areas. Some regulation by Platoro Reservoir (station 08244500) about 59 mi upstream since Nov. 7, 1951.

COOPERATION .-- Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage of Oct. 5, 1911, is the greatest since at least 1854, from information obtained from local residents in 1959.

DISCHARGE, CUBIC FEET PER SECOND

					YEAR OC	, CUBIC FEE TOBER 2003 LY MEAN V	TO SEPTEM					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	59	e48	e41	e45	e43	223	403	897	513	180	83
2	88	86	e45	e43	e44	e45	279	385	930	467	168	78
3	112	121	e40	e40	e45	e47	305	441	1,170	394	190	76
4	128	111	e40	e37	e46	e50	274	573	1,440	315	183	94
5	131	107	e42	e31	e44	e47	262	727	1,640	286	162	122
6	125	84	e45	e29	e42	e46	279	955	1,670	317	148	159
7	114	72	e46	e33	e42	e50	270	1,110	1,560	295	169	164
8	106	67	e44	e40	e44	e56	233	1,260	1,460	264	172	102
9	91	62	e36	e40	e42	e62	228	1,240	1,410	243	190	76
10	88	62	e36	e40	e42	e74	245	1,290	1,290	231	162	74
11	86	61	e36	e40	e42	88	256	1,420	1,050	231	129	76
12	79	59	e37	e43	e38	105	241	1,440	801	225	128	80
13	81	63	e34	e40	e37	118	211	1,210	657	221	133	82
14	77	67	e38	e40	e40	125	222	920	788	215	123	72
15	74	59	e34	e43	e41	125	236	829	838	236	131	66
16	68	55	e31	e45	e41	121	279	947	736	237	118	67
17	61	63	e37	e42	e43	124	296	1,140	603	233	124	68
18	60	50	e43	e40	e45	141	303	1,220	524	221	127	68
19	60	50	e45	e39	e46	164	283	1,310	578	251	114	75
20	59	55	e48	e42	e44	192	275	1,370	592	289	111	483
21	59	59	e46	e37	e44	218	277	1,500	571	323	125	641
22	61	62	e42	e34	e42	263	265	1,420	564	256	129	669
23	59	31	e38	e36	e42	285	264	1,210	496	268	116	295
24	62	e35	e37	e37	e43	299	238	996	431	347	100	192
25	72	e44	e38	e38	e42	368	242	758	413	324	91	178
26 27 28 29 30 31	62 58 59 61 56 50	e40 e38 e38 e41 e46	e43 e32 e29 e30 e32 e37	e29 e33 e37 e39 e44 e47	e44 e47 e44 e43	403 378 306 269 261 215	231 252 309 377 415	703 805 941 1,150 1,130 995	437 447 426 484 557	317 303 284 302 279 231	83 80 81 82 81 81	224 219 155 200 248
TOTAL	2,432	1,847	1,209	1,199	1,244	5,088	8,070	31,798	25,460	8,918	4,011	5,186
MEAN	78.5	61.6	39.0	38.7	42.9	164	269	1,026	849	288	129	173
MAX	131	121	48	47	47	403	415	1,500	1,670	513	190	669
MIN	50	31	29	29	37	43	211	385	413	215	80	66
AC-FT	4,820	3,660	2,400	2,380	2,470	10,090	16,010	63,070	50,500	17,690	7,960	10,290
MEAN	116	92.9	51.0	47.4	51.2	80.3	312	1,086	1,260	467	205	132
MAX	515	467	116	116	159	164	800	2,053	3,163	1,502	626	484
(WY)	(1905)	(1966)	(1987)	(1986)	(1983)	(2004)	(1936)	(1937)	(1920)	(1957)	(1952)	(1927)
MIN	34.7	29.9	25.1	22.7	30.0	41.0	138	282	118	37.1	17.1	26.8
(WY)	(1957)	(1931)	(2003)	(1918)	(1904)	(1904)	(1970)	(2002)	(1934)	(2002)	(2002)	(1956)
SUMMARY	Y STATIST	ICS		FOR 2003 CA	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 190	3 - 2004
LOWEST A HIGHEST I LOWEST I ANNUAL S MAXIMUN MAXIMUN ANNUAL I 10 PERCEN 50 PERCEN	MEAN ANNUAL M ANNUAL M DAILY ME DAILY MEA SEVEN-DA M PEAK FL	IEAN AN AN Y MINIMUN OW AGE AC-FT) OS	М	66,160 181 1,500 e24 26 131,200 458 77 32	May Feb Feb	7	191,30 80 11	4		4,4 8 b9,0 234,2	110 J 12 Au 000 O c8.50 O	1920 2002 2015, 1905 ul 18, 1904 ug 14, 2002 ct 5, 1911 ct 5, 1911

e Estimated.

a Also occurred Aug 19, 2002.

b Present site and datum, from rating curve extended above 3,100 ft<sup>3</sup>/s.

c From floodmarks.

196 RIO GRANDE BASIN

#### 08247500 SAN ANTONIO RIVER AT ORTIZ, CO

LOCATION.--Lat 36°59'35", long 106°02'17", in NE½,8E½,4 sec.24, T.32 N., R.8 E., Rio Arriba County, New Mexico, Hydrologic Unit 13010005, on left bank 800 ft upstream (south) from Colorado-New Mexico State line, 0.4 mi southeast of Ortiz, and 0.4 mi upstream from Los Pinos River.

DRAINAGE AREA.--110 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--October 1919 to October 1920, October 1924 to September 1940 (seasonal records only), October 1940 to current year. Monthly discharge only for some periods, published in WSP 1312. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=08247500

REVISED RECORDS.--WSP 1732: 1951. WSP 1923: 1927 (monthly discharge and runoff).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,970 ft above NGVD of 1929, from topographic map. Prior to Apr. 7, 1926, nonrecording gage at various locations near present site, at different datums. Apr. 7, 1926 to June 24, 1954, water-stage recorder on right bank at site 200 ft downstream at present datum.

REMARKS.—Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by diversions for irrigation and return flows from irrigated areas. Statistical summary computed for 1941 to current year, subsequent to conversion of station to year-round records.

COOPERATION .-- Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 5, 1911, is the greatest since at least 1854, from information obtained from local residents in 1959.

		OCTOBER 2003 DAILY MEAN V		IBER 2004				
DEC	JAN FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
e2.7 e2.7 e2.4 e2.4 e2.5	e2.1 e2.5 e2.0 e2.6 e1.8 e2.7	e3.5 e3.7 e4.0	75 98 95 79 69	113 104 137 177 187	8.7 7.9 7.3 6.7 5.8	3.0 1.7 0.90 0.48 0.18	0.66 0.39 0.20 0.13 0.07	0.00 0.00 0.00 0.00 0.00
e2.6 e2.7 e2.6 e2.1 e2.2	e1.9 e2.6 e2.1 e2.7 e2.1 e2.6	e6.0 e9.0 e13	77 79 86 92 84	187 182 164 135 121	4.7 3.8 3.4 2.9 2.7	0.10 0.06 0.01 0.00 0.00	0.01 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
e2.2 e2.3 e2.0 e2.2 e2.0	e2.1 e2.4 e2.1 e2.4 e2.1 e2.6	e27 e32 e37	74 73 63 64 71	107 95 79 66 57	2.6 2.5 2.2 2.0 1.7	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
e1.8 e2.0 e2.2 e2.2 e2.3	e2.2 e3.0 e2.1 e3.1	62 79	82 95 110 98 97	52 47 42 38 35	1.5 1.3 1.2 1.0 0.80	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.57 0.32 0.22	0.00 0.00 0.00 0.00 0.00
e2.2 e2.0 e1.9 e1.9 e2.0	e2.1 e2.9 e2.2 e3.1 e2.5 e3.1	84 81 88	99 90 81 75 84	31 27 24 22 18	0.57 0.36 0.26 0.18 0.12	0.00 0.00 0.00 0.00 0.00	0.16 0.13 0.05 0.00 0.00	0.00 0.00 0.00 0.00 0.00
e2.1 e1.8 e1.6 e1.7 e1.8 e1.9	e2.0 e3.7 e2.3 e3.4	99 63	67 76 117 148 150	16 14 12 10 9.9 9.9	0.09 0.09 0.12 0.49 2.3	0.81 1.2 0.82 0.56 0.77 0.83	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
	2.15 2.8 2.7 3.7 1.6 2.4 132 163	3 45.5 104 3.3 2,800	2,648 88.3 150 63 5,250	2,318.8 74.8 187 9.9 4,600	75.28 2.51 8.7 0.09 149	11.42 0.37 3.0 0.00 23	2.91 0.09 0.66 0.00 5.8	0.00 0.00 0.00 0.00 0.00
2.68 8.12 (1967) 0.48	2.31 3.7 6.00 13.0 (1965) (1962 0.00 0.2	2 17.9 70.6 2) (1997) 5 2.50	99.2 302 (1962) 8.15 (2002)	142 508 (1941) 0.91 (2002)	16.2 108 (1957) 0.00 (2002)	1.91 12.0 (1957) 0.00 (1940)	2.79 17.7 (1957) 0.00 (1951)	1.31 5.60 (2003) 0.00 (1951)
FO	R 2003 CALEND	AR YEAR	FOR 200	4 WATER YE	EAR	WATER	YEARS 1	940 - 2004
М	0.00 0.00 10,940 55 2.7	Apr 29 Jul 1 Jul 1	18 23 13,58 8	8.7 May 0.00 Jul 0.00 Jul 99 May 3.17 May 80 80 2.3	9 9 6	1,0 c1,3	61.8 2.36 550 a0.00 b0.00 880 c4.75 990 63 3.0	1952 2002 May 13, 1941 Jun 24, 1940 Jun 24, 1940 May 13, 1941 May 13, 1941
	e2.7 e2.4 e2.4 e2.4 e2.4 e2.5 e2.6 e2.7 e2.6 e2.7 e2.6 e2.1 e2.2 e2.3 e2.0 e2.2 e2.0 e1.8 e2.0 e2.2 e2.3 e2.0 e1.9 e1.9 e1.9 e1.9 e1.9 e1.9 e1.9 e1.9	DEC JAN FEB e2.7 e2.0 e2.6 e2.7 e2.1 e2.5 e2.4 e2.0 e2.6 e2.4 e1.8 e2.7 e2.5 e1.6 e2.6 e2.6 e1.6 e2.6 e2.7 e1.9 e2.6 e2.1 e2.1 e2.1 e2.1 e2.6 e2.2 e2.1 e2.6 e2.2 e2.1 e2.6 e2.3 e2.1 e2.4 e2.0 e2.1 e2.4 e2.0 e2.1 e2.4 e2.2 e2.1 e2.6 e2.0 e2.1 e2.4 e2.2 e2.1 e2.6 e2.0 e2.3 e2.7 e1.8 e2.5 e2.7 e1.9 e2.2 e3.0 e2.2 e2.1 e3.0 e2.1 e3.0 e2.1 e3.1 e2.3 e3.0 e2.2 e3.1 e3.1 e2.3 e3.0 e2.2 e3.1 e3.1 e2.3 e3.0 e2.1 e3.1 e2.1 e3.1 e2.1 e3.0 e3.3 e3.4 e1.7 e2.4 e3.2 e1.8 e2.5 e3.1 e1.9 e2.7 e3.7 e1.6 1.6 2.3 e3.4 e1.7 e2.4 e3.2 e1.8 e2.5 e3.1 e1.9 e2.7 e3.7 l.6 1.6 1.6 2.4 la3 132 163  AN DATA FOR WATER YEARS 19  2.68 2.31 3.7 l.6 1.6 1.6 2.4 la3 132 163  AN DATA FOR WATER YEARS 19  FOR 2003 CALEND  5,514.72 15.1	DEC JAN FEB MAR  e2.7 e2.0 e2.6 e3.3 e2.7 e2.1 e2.5 e3.5 e2.4 e2.0 e2.6 e3.7 e2.4 e1.8 e2.7 e4.0 e2.5 e1.6 e2.6 e3.7 e2.6 e2.6 e1.6 e2.6 e3.7 e2.6 e2.7 e1.9 e2.6 e6.0 e2.7 e1.9 e2.6 e13 e2.1 e2.1 e2.6 e13 e2.2 e2.1 e2.6 e13 e2.2 e2.1 e2.6 e13 e2.2 e2.1 e2.6 e3.7 e2.0 e2.3 e2.1 e2.4 e2.9 e2.0 e2.1 e2.4 e32 e2.0 e2.1 e2.6 e37 e2.0 e2.1 e2.4 e32 e2.2 e2.1 e2.6 e37 e2.0 e2.1 e2.4 e3.9 e2.0 e2.1 e2.4 e3.9 e2.0 e2.1 e2.4 e3.9 e2.0 e2.1 e3.1 79 e2.3 e2.3 e3.0 62 e2.2 e2.1 e3.0 62 e2.2 e2.1 e3.1 81 e1.9 e2.5 e3.1 81 e1.9 e2.5 e3.1 81 e1.9 e2.5 e3.1 104 e2.1 e1.9 e3.3 102 e1.8 e2.0 e2.5 e3.1 104 e2.1 e1.9 e3.3 102 e1.8 e2.0 e2.5 e3.1 104 e2.1 e1.9 e3.3 102 e1.8 e2.0 e2.5 e3.1 104 e2.1 e1.9 e3.3 102 e1.8 e2.0 e2.5 e3.1 104 e2.1 e1.9 e2.7 59 e1.8 e2.5 51 e1.9 e2.5 e3.1 e3.0 e3.0 e3.0 e3.0 e3.0 e3.0 e3.0 e3.0 e3.0	e2.7 e2.0 e2.6 e3.3 75 e2.7 e2.1 e2.5 e3.5 98 e2.4 e2.0 e2.6 e3.7 95 e2.4 e1.8 e2.7 e4.0 79 e2.5 e1.6 e2.6 e3.7 69 e2.6 e2.1 e2.7 e4.0 77 e2.7 e1.9 e2.6 e6.0 79 e2.6 e2.1 e2.7 e9.0 86 e2.1 e2.1 e2.6 e13 92 e2.2 e2.1 e2.6 e18 84 e2.2 e2.1 e2.6 e18 84 e2.2 e2.1 e2.4 e27 73 e2.0 e2.1 e2.4 e32 63 e2.2 e2.1 e2.6 e37 64 e2.0 e2.3 e2.1 e2.4 e32 63 e2.2 e2.1 e2.6 e37 64 e2.0 e2.3 e2.7 e42 71 e1.8 e2.5 e2.7 e47 82 e2.0 e2.4 e2.9 e54 95 e2.2 e2.1 e3.0 62 110 e2.2 e2.1 e3.1 79 98 e2.2 e2.1 e3.1 79 98 e2.2 e2.1 e3.1 88 75 e2.0 e2.1 e2.9 84 90 e1.9 e2.2 e3.1 88 75 e2.0 e2.1 e2.9 e3.1 88 75 e2.0 e2.1 e2.9 e3.1 81 81 e1.9 e2.5 e3.1 88 75 e2.0 e2.1 e2.9 e3.1 81 81 e1.9 e2.5 e3.1 88 75 e2.0 e2.1 e2.4 e3.2 50 148 e1.9 e2.2 e3.1 e3.0 76 e1.8 e2.0 e3.7 99 76 e1.9 e2.2 e3.1 104 84 e2.1 e1.9 e3.3 102 67 e1.8 e2.0 e3.7 99 76 e1.6 e2.3 e3.4 63 117 e1.8 e2.5 e3.1 88 75 e1.9 e2.7 e3.7 104 150 e1.7 e2.4 e3.2 50 148 e1.8 e2.0 e3.7 99 76 e1.6 e2.3 e3.4 63 117 e1.8 e2.5 e3.1 88 e1.9 e2.7 e3.1 104 84 e1.9 e2.7 e3.7 104 150 e1.8 e2.0 e3.7 99 76 e1.6 e2.3 e3.4 63 117 e1.8 e2.0 e3.7 99 76 e1.6 e2.3 e3.4 63 117 e1.8 e2.0 e3.7 99 76 e1.6 e2.3 e3.4 63 117 e1.8 e2.0 e3.7 99 76 e1.6 e2.3 e3.4 63 117 e1.8 e2.0 e3.7 99 76 e1.6 e2.3 e3.4 63 117 e1.8 e2.0 e3.7 99 76 e1.6 e2.3 e3.4 63 117 e1.8 e2.0 e3.7 99 76 e1.6 e2.3 e3.4 63 117 e1.8 e3.9 99 76 e1.6 e2.3 e3.4 63 117 e1.9 e2.5 e3.1 88 e1.9 e2.5 e3.1 88 e2.0 e3.7 99 76 e1.6 e2.0 e3.5 e3.1 88 e3.5 50 148 e1.9 e3.5 e3.1 88 e3.5 50 148 e1.9 e3.5 e3.1 88 e3.5 50 148 e1.9 e3.5 e3.1 88 e3.5 50 148 e3.1 20.0 13.0 70.6 302 e3.2 23 Apr 29 e3.3 Apr 29 e3.4 18 e3.5 55 e3.7 10.940 e3.3 Apr 29 e3.8 18 e3.9 0.00 Jul 1 1 e3.5 223 Apr 29 e3.8 18 e3.9 0.00 Jul 1 1 e3.5 223 Apr 29 e3.8 18 e3.9 0.00 Jul 1 1 e3.8 223 Apr 29 e3.8 18 e3.9 0.00 Jul 1 1 e3.8 223 Apr 29 e3.8 23 Apr 29 e3.8 23 Apr 29 e3.8 2	DEC JAN FEB MAR APR MAY  e2.7 e2.0 e2.6 e3.3 75 113 e2.4 e2.0 e2.6 e3.7 95 137 e2.4 e1.8 e2.7 e4.0 79 177 e2.5 e1.6 e2.6 e3.7 95 137 e2.4 e1.8 e2.7 e4.0 79 177 e2.5 e1.6 e2.6 e3.7 69 187 e2.6 e1.6 e2.6 e3.7 69 187 e2.7 e1.9 e2.6 e6.0 79 182 e2.1 e2.1 e2.6 e6.0 79 182 e2.1 e2.1 e2.6 e13 92 135 e2.2 e2.1 e2.6 e37 64 66 e2.0 e2.3 e2.1 e2.4 e27 73 95 e2.0 e2.1 e2.4 e32 63 79 e2.0 e2.1 e2.4 e32 63 79 e2.2 e2.1 e2.6 e37 64 66 e2.0 e2.3 e2.7 e42 71 57 e1.8 e2.5 e2.7 e47 82 52 e2.0 e2.4 e2.9 e54 95 47 e2.2 e2.1 e3.0 62 110 42 e2.3 e2.3 e3.0 62 110 42 e2.3 e2.3 e3.0 62 110 42 e2.2 e2.1 e3.1 79 98 38 e2.2 e2.1 e3.1 79 98 38 e2.2 e2.1 e3.1 84 97 35 e2.2 e2.1 e3.1 84 90 27 e2.3 e2.3 e3.0 84 97 35 e2.4 e2.0 e2.1 e2.9 e34 95 47 e2.2 e2.1 e3.1 79 98 182 e2.1 e2.9 e34 97 35 e2.9 e2.1 e2.6 e37 64 99 31 e2.1 e3.1 79 98 38 e2.2 e2.1 e3.1 79 99 84 88 e2.1 e1.9 e2.5 e3.1 88 75 22 e2.0 e2.1 e3.0 76 99 31 e1.9 e2.5 e3.1 88 75 22 e2.0 e2.1 e2.9 e34 90 27 e1.9 e2.2 e3.1 81 81 81 24 e1.9 e2.5 e3.1 88 75 22 e2.0 e3.0 63.7 99 76 14 e1.6 e3.3 e3.4 63 117 12 e1.7 e2.4 e3.2 50 148 10 e1.8 e2.5 51 150 9.9 e1.9 e2.7 59 9.9 e1.8 e2.5 51 150 9.9 e1.9 e2.7 59 9.9 e1.8 e3.2 50 148 10 e1.9 e3.3 372 17.9 99.2 142 e3.3 33 132 163 2,800 5,250 4,600 e1.8 e3.3 3.7 May  10.940 Jul 1 0,000 Jul 1 e1.9 0.00 Jul 1 0,000 Jul 239 May  3.17 May  10.940 Jul 1 0,000 Jul 239 May  3.17 May  10.940 Jul 1 0,000 Jul 239 May  3.17 May	DEC JAN FEB MAR APR MAY JUN  e2.7 e2.0 e2.6 e3.3 75 113 8.7 e2.7 e2.1 e2.5 e3.5 98 104 7.9 e2.4 e1.8 e2.7 e4.0 79 177 6.7 e2.5 e1.6 e2.6 e3.7 95 137 7.3 e2.4 e1.8 e2.7 e4.0 79 177 6.7 e2.5 e1.6 e2.6 e3.7 69 187 5.8 e2.6 e1.6 e2.5 e4.0 77 187 4.7 e2.7 e1.9 e2.6 e6.0 79 182 3.8 e2.6 e2.1 e2.1 e2.6 e1.3 92 135 2.9 e2.1 e2.1 e2.6 e1.3 92 135 2.9 e2.2 e2.1 e2.6 e1.8 84 121 2.7 e2.2 e2.1 e2.6 e1.8 84 121 2.7 e2.2 e2.1 e2.6 e1.8 94 121 2.7 e2.2 e2.1 e2.6 e2.7 73 95 2.5 e2.0 e2.1 e2.4 e27 73 95 2.5 e2.0 e2.1 e2.4 e32 63 79 2.2 e2.0 e2.1 e2.6 e37 64 66 2.0 e2.0 e2.1 e2.4 e27 71 57 1.7 e1.8 e2.5 e2.7 e47 82 52 1.5 e2.0 e2.2 e2.1 e3.1 79 98 38 1.0 e2.2 e2.1 e3.1 79 98 38 1.0 e2.2 e2.2 e2.1 e3.1 79 98 38 1.0 e2.2 e2.1 e3.1 81 81 81 24 0.26 e1.9 e2.2 e3.1 83 1 81 24 0.26 e1.9 e2.5 e3.1 88 75 22 0.18 e1.9 e2.7	DEC JAN FEB MAR APR MAY JUN JUL  e27 e2.0 c2.6 e3.3 75 113 8.7 3.0 e2.7 e2.1 e2.5 e3.5 98 104 7.9 1.7 e2.4 e2.0 e2.6 e3.3 75 1137 7.3 0.90 e2.4 e1.8 e2.7 e4.0 79 177 6.7 0.48 e2.5 e1.6 e2.6 e3.7 e4.0 79 187 7.3 0.90 e2.6 e1.6 e2.6 e3.7 e4.0 79 187 5.8 0.18 e2.6 e1.6 e2.5 e4.0 77 187 4.7 0.10 e2.7 e1.9 e2.6 e6.0 79 182 3.8 0.06 e2.6 e2.1 e2.7 e9.0 86 164 3.4 0.01 e2.1 e2.1 e2.1 e2.6 e13 92 135 2.9 0.00 e2.2 e2.1 e2.6 e18 84 121 2.7 0.00 e2.2 e2.1 e2.6 e18 84 121 2.7 0.00 e2.2 e2.1 e2.6 e18 84 121 2.7 0.00 e2.2 e2.1 e2.6 e22 74 107 2.6 0.00 e2.0 e2.1 e2.4 e32 63 79 2.2 0.00 e2.0 e2.1 e2.4 e37 64 66 62 2.0 0.00 e2.0 e2.1 e2.4 e37 64 66 62 2.0 0.00 e2.0 e2.3 e2.7 e42 71 57 1.7 0.00 e1.8 e2.5 e2.7 e42 71 57 1.7 0.00 e1.8 e2.5 e2.7 e42 71 57 1.7 0.00 e2.2 e2.1 e3.0 62 110 42 1.2 0.00 e2.2 e2.1 e3.1 88 95 47 1.3 0.00 e2.2 e2.1 e3.1 89 98 38 1.0 0.00 e2.3 e2.3 e3.3 84 97 35 0.80 0.00 e2.4 e2.2 e2.1 e3.0 76 99 31 0.57 0.00 e2.9 e2.2 e2.1 e3.0 76 99 31 0.57 0.00 e2.0 e2.1 e3.1 88 75 22 0.18 0.00 e2.1 e1.9 e2.5 e3.1 88 75 22 0.18 0.00 e2.1 e1.9 e3.3 102 67 16 0.00 27 0.36 0.00 e1.8 e2.0 e2.1 e3.9 84 90 27 0.36 0.00 e1.9 e2.2 e3.1 81 81 81 24 0.26 0.00 e1.9 e2.5 e3.1 88 75 22 0.18 0.00 e2.1 e1.9 e2.5 e3.1 104 84 18 0.12 0.00 e2.1 e1.9 e3.3 102 67 16 0.00 149 23 AN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)  2.68 2.31 3.72 17.9 99.2 142 16.2 19.00 0.00 e1.8 e2.0 e2.5 e3.1 104 84 18 0.00 0.00 149 23 AN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)  2.08 2.31 3.72 17.9 99.2 142 16.2 19.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	DEC JAN FEB MAR APR MAY JUN JUL AUG  e2.7 e2.0 e2.6 e3.3 75 113 8.7 3.0 0.66 e2.7 e2.1 e2.5 e3.5 98 104 79 1.7 0.39 e2.4 e2.0 e2.6 e3.7 95 137 7.3 0.90 0.20 e2.4 e1.8 e2.7 e4.0 79 1.77 6.7 0.48 0.13 e2.5 e1.6 e2.6 e3.7 69 187 5.8 0.18 0.07 e2.6 e1.6 e2.5 e4.0 77 187 4.7 0.10 0.01 e2.7 e1.9 e2.6 e6.0 79 182 3.8 0.06 0.00 e2.1 e2.1 e2.7 e9.0 86 164 3.4 0.01 0.00 e2.1 e2.1 e2.6 e1.3 92 135 2.9 0.00 0.00 e2.1 e2.1 e2.6 e1.8 84 121 2.7 0.00 0.00 e2.2 e2.1 e2.6 e1.8 84 121 2.7 0.00 0.00 e2.3 e2.1 e2.4 e2.7 73 95 135 2.9 0.00 0.00 e2.2 e2.1 e2.6 e1.8 84 121 2.7 0.00 0.00 e2.2 e2.1 e2.6 e3.7 64 66 2.0 0.00 0.00 e2.2 e2.1 e2.4 e2.7 73 95 2.5 0.00 0.00 e2.2 e2.1 e2.4 e3.2 63 79 2.2 0.00 0.00 e2.2 e2.1 e2.4 e3.2 63 79 2.2 0.00 0.00 e2.2 e2.1 e2.4 e3.7 64 66 2.0 0.00 0.00 e2.2 e2.1 e2.4 e3.7 64 66 2.0 0.00 0.00 e2.2 e2.1 e2.4 e3.8 84 121 2.7 0.00 0.00 e2.2 e2.1 e2.4 e3.7 64 66 6.0 0.00 0.00 e2.2 e2.1 e2.4 e3.9 e42 71 57 1.7 0.00 0.00 e2.2 e2.1 e2.4 e3.9 e44 95 41 3.0 0.0 0.00 e2.2 e2.1 e2.4 e3.0 6.3 79 2.2 0.00 0.00 e2.2 e2.1 e2.5 e3.0 64 95 47 1.3 0.00 0.00 e1.8 e2.5 e2.7 e47 187 57 1.7 0.00 0.00 e1.8 e2.5 e2.9 e54 95 47 1.3 0.00 0.00 e2.2 e2.2 e2.1 e3.0 60 110 42 1.2 0.00 0.57 e2.2 e2.2 e3.0 63 1 99 98 38 1.0 0.00 0.02 e2.2 e2.2 e3.0 63 1 99 98 38 1.0 0.00 0.02 e2.2 e2.2 e3.0 63 1 99 98 38 0.0 0.00 0.22 e2.2 e2.1 e3.0 76 99 31 0.57 0.00 0.03 e1.8 e2.5 e2.3 e3.1 81 81 24 0.26 0.00 0.00 e1.8 e2.5 e2.3 e3.1 88 75 22 0.18 0.00 0.00 e1.8 e2.5 e3.3 84 97 35 0.80 0.00 0.02 e2.3 e2.3 e3.3 84 99 37 0.00 0.00 e1.8 e2.5 e3.1 88 75 22 0.18 0.00 0.00 e1.8 e2.5 e3.1 88 75 22 0.18 0.00 0.00 e1.8 e2.5 e3.1 88 75 22 0.18 0.00 0.00 e1.8 e2.5 e3.1 88 75 22 0.18 0.00 0.00 e1.8 e2.5 e3.1 88 75 22 0.18 0.00 0.00 e1.8 e2.5 e3.1 88 75 22 0.18 0.00 0.00 e1.8 e2.5 e3.1 88 75 22 0.18 0.00 0.00 e1.8 e2.5 e3.1 88 75 22 0.18 0.00 0.00 e1.8 e2.5 e3.1 88 75 22 0.18 0.00 0.00 e1.8 e2.5 e3.1 88 75 22 0.18 0.00 0.00 e1.8 e2.5 e3.1 88 75 22 0.18 0.00 0.00 e1.8 e2.5 e3.1 88 75 22 0.18 0.00 0.00 e1.8 e2.5 e3.1 88 75 20 0.00 0.00 0.00 0.00 e1.8 e2.5 e3.1 88 7

Estimated

Also occurred Jun 25 to Aug 7, and Aug 19-23, 1940, and on many days during many years.

Also occurred for periods during many years.

From rating curve extended above 1,100 ft<sup>3</sup>/s. Maximum discharge and gage height for period of record, 1,750 ft<sup>3</sup>/s, Apr 15, 1937, gage height, 5.38 ft, from rating curve extended above 1,100 ft<sup>3</sup>/s.

#### 08248000 LOS PINOS RIVER NEAR ORTIZ, CO

LOCATION.--Lat 36°58'56", long 106°04'23", on line between sec.26, and sec.27, T.32 N., R.8 E., Rio Arriba County, New Mexico, Hydrologic Unit 13010005, on left bank 0.9 mi upstream (south) from Colorado-New Mexico State line, 2.1 mi southwest of Ortiz, and 2.9 mi upstream from mouth.

DRAINAGE AREA.--167 mi<sup>2</sup>.

PERIOD OF RECORD.--January 1915 to December 1920, October 1924 to current year. Monthly discharge only for some periods, published in WSP 1312. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=08248000

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,040 ft above NGVD of 1929, from topographic map. Prior to Apr. 15, 1955, at site 350 ft upstream at datum 2.52 ft higher.

REMARKS.—Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by diversions for irrigation and return flows from irrigated areas.

DISCHARGE, CUBIC FEET PER SECOND

COOPERATION .-- Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

EXTREMES OUTSIDE PERIOD OF RECORD.-Flood of Oct. 5, 1911, is the greatest since at least 1854, from information obtained from local residents in 1959.

					R YEAR OC		ET PER SECO TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	16 17 27 26 22	13 18 29 22 17	e20 e19 e17 e17 e18	e16 e17 e15 e13 e11	e15 e14 e15 e16 e15	e18 e19 e20 e22 e19	209 235 238 200 176	316 340 453 581 637	230 226 231 236 239	46 36 31 27 25	27 26 25 25 22	9.3 7.6 7.3 10 21
6 7 8 9 10	20 20 19 19 18	17 19 21 18 18	e19 e20 e19 e16 e17	e11 e13 e15 e14 e14	e14 e15 e16 e15 e15	e21 e24 e28 e32 e36	178 187 198 194 186	707 795 819 761 765	226 214 199 178 e162	24 23 22 22 20	22 22 21 19 18	16 13 12 12 11
11 12 13 14 15	19 19 17 16 16	18 17 25 20 20	e17 e17 e16 e18 e17	e14 e14 e14 e14 e15	e15 e13 e13 e15 e16	e39 e42 e45 e48 e51	175 162 151 164 181	766 709 560 483 466	e147 e131 e115 e101 90	20 20 19 18 18	17 18 17 18 17	11 10 10 10 9.6
16 17 18 19 20	16 16 16 16 16	25 24 15 e19 e19	e15 e16 e17 e17 e18	e16 e15 e14 e13 e14	e16 e18 e19 e20 e19	56 60 69 77 89	213 249 277 254 256	476 489 472 481 485	86 78 72 66 60	18 21 21 23 29	16 15 15 15 15	9.2 9.2 8.6 10 52
21 22 23 24 25	15 15 15 14 14	e20 e16 e13 e13 e19	e18 e17 e16 e16 e17	e13 e12 e12 e13 e13	e19 e18 e19 e19	111 146 175 225 272	269 244 225 204 199	485 459 409 356 316	53 51 51 48 45	33 24 24 42 34	17 17 15 13 12	30 30 25 22 21
26 27 28 29 30 31	12 14 15 14 14 13	e17 e15 e15 e17 e19	e18 e15 e13 e14 e15 e15	e11 e11 e14 e15 e16 e16	e20 e22 e19 e17	282 258 195 165 160 174	187 229 325 384 380	285 274 280 301 270 238	45 47 42 47 58	36 39 39 53 42 32	11 11 10 9.8 9.6 9.5	23 21 20 25 27
TOTAL MEAN MAX MIN AC-FT	526 17.0 27 12 1,040	558 18.6 29 13 1,110	524 16.9 20 13 1,040	428 13.8 17 11 849	486 16.8 22 13 964	2,978 96.1 282 18 5,910	6,729 224 384 151 13,350	15,234 491 819 238 30,220	3,574 119 239 42 7,090	881 28.4 53 18 1,750	524.9 16.9 27 9.5 1,040	502.8 16.8 52 7.3 997
MEAN MAX (WY) MIN (WY)	26.9 109 (1987) 10.1 (1957)	21.7 70.1 (1987) 11.1 (1957)	16.1 34.4 (1987) 5.00 (1918)	14.5 26.0 (1987) 5.00 (1918)	7EARS 1915 17.0 30.0 (1962) 7.50 (1964)	- 2004, BY V 34.9 96.1 (2004) 13.9 (1977)	221 610 (1936) 65.9 (1968)	601 1,341 (1952) 33.8 (2002)	321 1,022 (1957) 8.22 (2002)	71.0 258 (1957) 5.17 (2002)	34.6 112 (1929) 3.75 (2002)	24.6 101 (1927) 7.53 (1956)
SUMMAF	RY STATIST	ICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	)4 WATER Y	/EAR	WATER	YEARS 191:	5 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE 50 PERCE		IEAN AN AN Y MINIMUN OW AGE AC-FT) OS OS	М	53	8.1 1 May 5.7 Aug 7.4 Aug 0 2 8	20	1,0 <sup>4</sup> 65,33 26	90.0 19 Ma 7.3 Se 9.0 Au 40 Ma 5.26 Ma	y 8 p 3 g 28 y 7 y 7	2,4 a3,1 85,6	1.7 Au 2.3 Au 160 Ma b5.77 Ma	1952 2002 y 13, 1941 g 27, 2002 g 25, 2002 y 12, 1941 y 12, 1941

e Estimated

a Site and datum then in use, from rating curve extended above 1,600 ft<sup>3</sup>/s.

b Maximum gage height, 6.19 ft, May 22, 1993, present site and datum.

198 RIO GRANDE BASIN

#### 08249000 CONEJOS RIVER NEAR LASAUSES, CO

LOCATION.--Lat 37°18'01", long  $105^{\circ}44'47$ ", in  $SW^{1}_{4}SW^{1}_{4}$  sec. 2, and  $SE^{1}_{4}NE^{1}_{4}$  sec. 10 (two channels), T.35 N., R.11 E., Conejos County, Hydrologic Unit 13010005, on left bank of main channel 125 ft downstream from bridge on State Highway 158 and on left bank of secondary channel 230 ft upstream from bridge on State Highway 158, 1.0 mi upstream from mouth, 2.1 mi north of Lasauses, and 13 mi southeast of Alamosa.

DRAINAGE AREA.--887 mi<sup>2</sup>.

PERIOD OF RECORD.--March 1921 to current year. Monthly discharge only for some periods, published in WSP 1312. Prior to October 1, 1966, published as "at mouth, near La Sauses" or "near La Sauses." For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=08249000

REVISED RECORDS.--WSP 1312: 1932 (monthly discharge and runoff), 1934(M).

GAGE.—Two water-stage recorders with satellite telemetry. Datum of gage on main (north) channel is 7,495.02 ft above NGVD of 1929, and on secondary (south) channel is 7,496.89 ft above NGVD of 1929 (levels by U.S. Bureau of Reclamation). Main channel: April 11 to September 30, 1937, at datum 1.00 ft higher. See WSP 1312 and 1732 for history of changes prior to Apr. 11, 1937. South channel: May 4, 1936, to Oct. 13, 1965, at site 280 ft downstream at datum 1.00 ft lower. See WSP 1312 and 1732 for history of changes prior to May 4, 1936.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by diversions for irrigation, ground-water withdrawals, and return flows from irrigated areas. Flows regulated to some extent by Platoro Reservoir (station 08244500) about 83 mi upstream since Nov. 7, 1951.

COOPERATION .-- Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 5, 1911, is the greatest since at least 1854, from information obtained from local residents in 1959.

					R YEAR OC	E, CUBIC FEE TOBER 2003 ILY MEAN V	TO SEPTEM					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	e22 e25 e24 e22 e19	e42 e35 e37 e39 e34	e76 e74 e72 e87 e82	359 355 412 414 351	334 235 226 347 385	117 103 162 352 350	112 56 46 52 42	23 14 12 17 24	0.00 0.00 0.00 0.00 0.00
6 7 8 9 10	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	e20 e30 e40 e45 e44	e26 e24 e27 e22 e20	e75 e80 e86 e98 e119	257 233 224 189 153	418 489 551 540 414	504 395 229 129 115	42 38 34 26 24	17 3.3 6.8 5.2 4.5	0.00 0.00 0.00 0.00 0.00
11 12 13 14 15	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	e42 e43 e41 e38 e45	e21 e21 e17 e17 e18	e141 e163 e192 e209 e238	147 137 96 85 140	362 372 373 283 225	97 78 80 52 148	19 15 22 24 25	3.8 3.8 3.6 3.5 3.6	0.00 0.00 0.00 0.00 0.00
16 17 18 19 20	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 6.5 26 17	e58 e51 e53 e55 e63	e18 e18 e18 e19	e262 235 236 261 311	157 213 269 251 213	238 294 502 641 645	198 117 69 63 59	25 28 24 23 22	3.3 0.65 0.42 0.59 0.65	0.00 0.00 0.00 0.00 0.00
21 22 23 24 25	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	18 e17 e16 e15 e17	e58 e53 e48 e48 e50	e24 e29 e34 e39 e43	345 388 459 512 601	217 192 166 222 188	418 345 274 191 157	43 61 88 57 44	36 52 20 18 58	0.47 0.52 0.59 0.20 0.05	0.00 0.00 0.00 0.00 0.00
26 27 28 29 30 31	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	e20 e18 e16 e16 e18 e19	e37 e39 e43 e44 e47 49	e45 e57 e72 e75 	702 723 651 516 449 411	170 139 183 299 410	181 188 203 251 261 169	58 57 61 61 62	29 22 24 28 24 28	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
TOTAL MEAN MAX MIN AC-FT	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	239.50 7.73 26 0.00 475	1,296 41.8 63 19 2,570	909 31.3 75 17 1,800	8,854 286 723 72 17,560	6,841 228 414 85 13,570	10,512 339 645 157 20,850	4,009 134 504 43 7,950	1,038 33.5 112 15 2,060	152.54 4.92 24 0.00 303	0.00 0.00 0.00 0.00 0.00
						- 2004, BY W		, ,	540	120	40.6	27.2
MEAN MAX (WY) MIN (WY)	46.0 307 (1942) 0.00 (2003)	79.1 424 (1976) 0.00 (2004)	57.4 140 (1986) 7.73 (2004)	60.7 146 (1986) 24.0 (1964)	76.9 186 (1983) 21.8 (2003)	104 286 (2004) 7.66 (2003)	239 1,177 (1924) 1.47 (2002)	687 2,642 (1924) 0.26 (2002)	540 1,850 (1935) 0.00 (2002)	139 1,132 (1957) 0.00 (2002)	48.6 413 (1952) 0.00 (1934)	37.3 425 (1927) 0.00 (1976)
SUMMAR	RY STATISTI	ICS		FOR 2003 C	ALENDAR	YEAR	FOR 200	)4 WATER Y	EAR	WATER	YEARS 192	1 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU ANNUAL 10 PERCE 50 PERCE		EAN AN AN Y MINIMUN OW .C-FT) OS	Л	83 () () 5,22( 26	7.20 May 0.00 Jul 0.00 Jul	12	72 Not det 67,14 33	23 Mar 0.00 Oct 0.00 Oct ermined	1	3,8 c3,8 127,6	a0.00 Ju b0.00 Ju 90 Ma	1941 2003 y 15, 1941 n 27, 1934 ıl 21, 1934 y 15, 1941

e Estimated.

a Also occurred Jun 28 to Jul 1, Jul 3, and Jul 21 to Sep 8, and many days during many years.

b Also occurred during many years.

c Gage height not determined.

#### 08250000 CULEBRA CREEK AT SAN LUIS, CO

LOCATION .-- Lat 37°11'01", long 105°25'31", Costilla County, Hydrologic Unit 13010002, on left bank at bridge 1 mi south of San Luis, and 1 mi upstream from the Rito Seco.

DRAINAGE AREA.--220 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1927 to September 1982. October 1998 to current year. Monthly discharge only for some periods, published in WSP 1312. Records for January 1910 to December 1911, published as Culebra River at San Luis in WSP 288 and 308, have been found to be unreliable and should not be used. October 1982 to September 1998, in reports of State Engineer. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=08250000

REVISED RECORDS.--WSP 1312: 1940. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder with satellite telemetry. Non-standard Parshall flume since May 23, 1931. Elevation of gage is 8,000 ft above NGVD of 1929, from topographic map. Prior to May 23, 1931, at different datum.

REMARKS.—Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoir, diversions for irrigation, groundwater withdrawals, and return flows from irrigated areas. Flow regulated to large extent by Sanchez Reservoir on Ventero Creek, capacity 103,000 acre-ft.

COOPERATION .-- Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

					R YEAR OC	E, CUBIC FEE TOBER 2003 ILY MEAN V	TO SEPTEM					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	20 25 33 32 29	17 17 18 19 20	19 19 17 16 16	14 15 16 14 13	15 14 16 16 16	18 19 19 20 20	17 18 21 20 19	23 19 17 17 16	68 76 99 109 116	57 45 44 82 82	43 42 58 71 72	73 72 71 73 66
6 7 8 9 10	28 27 27 26 26	20 22 22 21 21	17 17 18 16 15	13 14 14 14 14	14 e14 17 e15 e14	19 20 24 36 46	17 16 20 21 23	16 15 17 17 46	119 117 114 119 123	79 76 74 104 121	59 46 45 63 90	45 47 46 47 43
11 12 13 14 15	25 25 25 24 23	20 20 24 26 24	15 15 14 16 15	14 15 15 15 14	e14 e13 e12 e13 e14	48 42 36 33 29	23 20 16 15 13	62 61 66 72 70	111 104 100 97 93	119 119 118 118 101	97 95 94 95 83	31 32 32 31 31
16 17 18 19 20	23 23 21 20 19	21 20 20 20 20 19	14 15 15 15 16	15 15 15 15 15	e14 e15 e16 17	25 25 25 25 25 25	13 13 13 13 13	71 86 104 116 116	92 90 81 54 47	79 78 72 59 63	57 76 77 82 81	31 37 42 46 36
21 22 23 24 25	19 19 20 21 22	19 19 17 18 19	16 16 14 15 16	15 16 14 16 15	17 17 17 18 18	24 23 23 23 22	13 13 19 18 17	100 79 78 85 96	47 49 56 73 75	63 68 67 60 56	58 53 52 62 67	16 17 16 29 47
26 27 28 29 30 31	21 22 21 21 19 18	19 17 16 17 18	17 14 14 11 12 14	e14 e13 e13 e15 e15	18 18 18 18	21 21 19 19 19	16 15 15 15 24	111 117 121 124 121 107	82 84 77 83 75	53 48 35 37 39 39	74 74 75 75 75 74	48 49 37 19 19
TOTAL MEAN MAX MIN AC-FT	724 23.4 33 18 1,440	590 19.7 26 16 1,170	479 15.5 19 11 950	451 14.5 16 13 895	455 15.7 18 12 902	786 25.4 48 18 1,560	509 17.0 24 13 1,010	2,166 69.9 124 15 4,300	2,630 87.7 123 47 5,220	2,255 72.7 121 35 4,470	2,165 69.8 97 42 4,290	1,229 41.0 73 16 2,440
MEAN MAX (WY) MIN (WY)	22.2 36.7 (1942) 6.00 (1951)	21.4 21.4 51.4 (1958) 6.63 (1951)	18.4 39.1 (1958) 6.64 (1952)	18.1 32.2 (1942) 7.03 (1951)	18.6 32.6 (1942) 6.70 (1951)	19.5 36.2 (1942) 7.42 (1951)	18.6 48.3 (1942) 7.79 (1951)	53.9 137 (1930) 11.7 (1955)	132 303 (1942) 40.1 (1963)	108 231 (1942) 30.4 (1977)	80.3 184 (1949) 27.3 (1976)	32.6 69.2 (1945) 9.49 (1972)
SUMMAR	Y STATIST	TICS		FOR 2003 C	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	(a)WATE	R YEARS 19	927 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU	MEAN ANNUAL M ANNUAL M DAILY ME DAILY ME SEVEN-DA M PEAK FL	MEAN AN AN AY MINIMUM OW	I	116	1.8 5 Jun 3.9 Feb	9	12 1 1 13	39.5 24 May 1 Dec 3 Apr 33 Jur	29 r 15 n 10		4.6 O 5.0 O 554 Ju	1942 1951 un 1, 1942 let 31, 1950 let 22, 1950 ul 1, 1947
ANNUAL 10 PERCE 50 PERCE	M PEAK ST RUNOFF (A NT EXCEE) NT EXCEE NT EXCEE	AC-FT) DS DS		23,020 71 20 11	l )		28,64 9 2		ı 10	32,8		ul 1, 1947

a Water years 1927-1982 and 1999 to current year. b From rating curve extended above 300 ft<sup>3</sup>/s.

RIO GRANDE BASIN 200

#### 08251500 RIO GRANDE NEAR LOBATOS, CO

LOCATION.--Lat 37°04'43", long 105°45'23", in NE $^1$ /<sub>4</sub>NW $^1$ /<sub>4</sub> sec.27, T.33 N., R.11 E., Conejos County, Hydrologic Unit 13010002, on right bank at highway bridge, 5.7 mi north of Colorado-New Mexico State line, 8 mi downstream from Culebra Creek, 11 mi east of Lobatos, and 14 mi east of Antonito.

DRAINAGE AREA.--7,700 mi<sup>2</sup>, approximately, includes 2,940 mi<sup>2</sup> in closed basin in northern part of San Luis Valley, CO.

PERIOD OF RECORD.--July 1899 to current year. Monthly discharge only for some periods, published in WSP 1312. Published as "at Cenicero" 1899-1901, and as "near Cenicero" 1902-4. Statistical summary computed for 1931 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=08251500

REVISED RECORDS.-- WSP 210: Drainage area. WSP 1312: 1919 (monthly discharge and runoff). WDR CO-78-1: 1976.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 7,427.63 ft above NGVD of 1929. Prior to Nov. 8, 1910, nonrecording gages at same site and datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, transmountain diversions, diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants.

COOPERATION .-- Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage of June 18, 1903, is greatest since at least 1828.

# DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	26	e230	e150	e195	e245	807	567	561	339	117	14
2	12	30	e205	e160	e200	e260	640	504	452	401	105	13
3	14	34	e205	e170	e200	e260	586	420	499	302	85	8.4
4	17	33	e195	e175	e200	e265	617	468	688	243	80	7.9
5	18	36	e190	e180	e205	e275	568	570	862	241	71	17
6	16	41	e200	e190	e200	e275	447	601	945	229	69	17
7	15	47	e220	e180	e195	e285	356	712	784	209	55	16
8	30	41	e220	e170	e190	e305	334	870	606	174	36	16
9	28	39	e180	e175	e190	e340	312	975	614	152	36	16
10	25	39	e145	e185	e185	e400	274	918	593	142	32	15
11	20	39	e160	e195	e190	e460	249	849	525	137	34	13
12	20	38	e125	e200	e155	e525	241	810	482	130	27	15
13	19	40	e160	e200	e180	e526	211	847	519	137	25	15
14	16	39	e180	e200	e195	551	168	764	468	139	24	14
15	16	41	e145	e200	e190	590	179	638	437	140	24	12
16	15	42	e165	e200	e185	617	210	612	557	127	28	11
17	15	51	e185	e205	e185	618	244	586	581	115	31	12
18	16	116	e180	e210	e190	598	316	797	490	110	29	13
19	16	204	e170	e215	e195	604	362	1,090	384	114	29	15
20	17	218	e175	e215	e195	647	333	1,180	425	126	22	18
21	18	219	e180	e185	e200	726	324	1,030	401	134	19	17
22	19	e220	e175	e225	e205	804	317	838	366	143	18	18
23	19	e220	e170	e205	e205	932	303	810	384	132	19	46
24	18	e160	e180	e190	e215	1,030	342	694	384	115	17	50
25	17	e230	e190	e200	e225	1,150	398	568	315	117	16	26
26 27 28 29 30 31	17 19 19 18 18	e200 e200 e175 e140 e190	e165 e130 e155 e160 e155 e150	e185 e185 e195 e195 e195 e200	e230 e235 e245 e245	1,290 1,360 1,380 1,240 1,080 956	357 295 298 396 531	622 699 646 670 721 704	303 304 299 291 287	152 136 105 117 111 99	16 15 15 15 15 14	20 18 17 19 20
TOTAL	555	3,148	5,445	5,935	5,825	20,594	11,015	22,780	14,806	5,068	1,138	529.3
MEAN	17.9	105	176	191	201	664	367	735	494	163	36.7	17.6
MAX	30	230	230	225	245	1,380	807	1,180	945	401	117	50
MIN	11	26	125	150	155	245	168	420	287	99	14	7.9
AC-FT	1,100	6,240	10,800	11,770	11,550	40,850	21,850	45,180	29,370	10,050	2,260	1,050
STATIST	ICS OF MON	NTHLY MEA	N DATA FO	R WATER YI	EARS 1931	- 2004, BY W	ATER YEAR	R (WY)				
MEAN	182	307	281	262	312	417	503	1,078	1,190	423	165	131
MAX	1,401	1,199	763	521	595	884	2,326	4,958	4,470	2,754	1,281	938
(WY)	(1942)	(1942)	(1942)	(1986)	(1986)	(1987)	(1985)	(1987)	(1941)	(1995)	(1999)	(1999)
MIN	12.9	59.6	61.7	75.7	102	66.0	32.3	31.2	19.8	1.28	3.21	1.91
(WY)	(1957)	(1955)	(1964)	(1957)	(1957)	(1957)	(1935)	(2002)	(1977)	(1951)	(1956)	(1956)
SUMMAR	Y STATISTI	CS		FOR 2003 CA	ALENDAR '	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 193	31 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE	MEAN ANNUAL M ANNUAL M DAILY MEA DAILY MEA	EAN AN N Y MINIMUM OW AGE C-FT) S		37,215. 102 279 5. 8. 73,820 205 83	Jun 8 Aug	22	1,42	55 30 Ma 7.9 Se 2 Au 20 Ma 62.91 Ma 90 16	ur 28 p 4 g 29 ur 28 ur 28	1,2 69,1 d11,6 316,9	c0.00 0.00 600 M g8.76 M	1987 1964 un 22, 1949 Jul 16, 1950 Jul 16, 1950 ay 8, 1952 ay 8, 1952

e Estimated.

90 PERCENT EXCEEDS

Average discharge for 31 years (water years 1900-30), 846 ft<sup>3</sup>/s; 612,900 acre-ft/yr, includes period of extensive development for irrigation. Maximum daily discharge for period of record, 13,100 ft<sup>3</sup>/s, Jun 8, 1905. No flow at times in 1950-51, 1956.

Maximum discharge for period of record, 13,200 ft<sup>3</sup>/s, Jun 8, 1905, gage height, 9.1 ft, from rating curve extended above 8,000 ft<sup>3</sup>/s. Maximum gage height, 3.01 ft, Mar 12, backwater from ice. Maximum gage height for period of record, 10.0 ft, Jun 18, 1903.

# HYDROLOGIC-DATA STATION RECORDS

#### COLORADO RIVER MAIN STEM

# 09010500 COLORADO RIVER BELOW BAKER GULCH, NEAR GRAND LAKE, CO

 $LOCATION.--Lat~40^{\circ}19^{\circ}33^{\circ}, long~105^{\circ}51^{\circ}22^{\circ}, in~NE^{\frac{1}{4}}AW^{\frac{1}{4}}, sec. 12, T.4~N., R.76~W., Grand~County,~Hydrologic~Unit~14010001, on left bank~500~ft~downstream~from~Baker~Gulch,~1.0~mi~upstream~from~Bowen~Gulch,~and~5.5~mi~northwest~of~town~of~Grand~Lake.$ 

DRAINAGE AREA.--53.4 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1953 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09010500

REVISED RECORDS.--WSP 2124: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,750 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharge, which are poor. Transmountain diversion upstream from station by Grand River Ditch (see elsewhere in

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES  DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	17 18 26 23 21	12 13 15 13 12	e14 e14 e14 e14	e15 e15 e15 e15 e15	e15 e14 e13 e12 e12	e7.5 e7.6 e7.8 e7.8	e36 e40 e38 e37 e40	37 36 46 67 95	85 90 107 122 127	129 100 86 79 79	44 49 44 39 36	e17 e19 e18 e18 e19		
6 7 8 9 10	19 19 18 18 17	13 14 15 15 15	e14 e14 e14 e14	e15 e15 e15 e15 e15	e12 e11 e11 e9.3 e9.2	e7.8 e7.8 e7.7 e7.6 e8.0	e42 e45 e46 e45 e41	139 157 160 151 157	151 170 180 174 174	78 66 61 57 56	35 33 31 28 26	e20 e23 e21 e20 19		
11 12 13 14 15	19 18 17 16 16	15 14 16 16 14	e15 e15 e15 e15 e15	e15 e15 e15 e15 e15	e9.2 e9.2 e9.0 e8.8 e8.8	e8.2 e8.3 e8.5 e8.8 e8.8	e39 e38 e35 e34 e35	172 152 116 94 83	143 122 111 103 103	53 49 46 50 75	26 26 24 23 22	25 20 18 21 20		
16 17 18 19 20	16 16 16 15 15	15 14 14 15 15	e15 e15 e15 e15 e15	e15 e15 e15 e15 e15	e8.7 e8.7 e8.3 e7.8 e7.7	e8.8 e8.9 e9.2 e9.4	e37 e38 e46 e48 e49	77 77 82 101 124	105 113 126 126 111	78 102 82 68 68	21 21 64 434 118	18 16 15 14 18		
21 22 23 24 25	14 14 13 13 12	e15 e15 e15 e15 e14	e15 e15 e15 e15 e15	e15 e15 e15 e15 e15	e7.5 e7.5 e7.2 e6.8	e14 e31 e35 e38 e41	e47 e45 e43 e41 e40	142 140 129 161 146	118 101 85 79 78	80 74 82 86 65	114 44 38 e30 e24	27 28 25 27 32		
26 27 28 29 30 31	10 12 13 13 13 12	e14 e14 e14 e14	e15 e15 e15 e15 e15	e15 e15 e15 e15 e15 e15	e6.4 e6.4 e6.7 	e40 e38 e32 e29 e32 e34	e41 e41 e43 41 42	126 100 110 117 101 89	89 85 84 88 134	59 59 57 57 51 50	e21 e21 e21 e21 e19 e16	32 30 30 36 53		
TOTAL MEAN MAX MIN AC-FT	499 16.1 26 10 990	429 14.3 16 12 851	455 14.7 15 14 902	465 15.0 15 15 922	267.1 9.21 15 6.4 530	528.8 17.1 41 7.5 1,050	1,233 41.1 49 34 2,450	3,484 112 172 36 6,910	3,484 116 180 78 6,910	2,182 70.4 129 46 4,330	1,513 48.8 434 16 3,000	699 23.3 53 14 1,390		
STATISTI MEAN	ICS OF MON 23.6	NTHLY MEA 15.1	N DATA FC 9.98	OR WATER Y 8.10	EARS 1953 7.19	- 2004, BY W 7.87	ATER YEAF 27.8	R (WY) 170	310	111	34.2	26.7		
MAX (WY) MIN (WY)	83.7 (1962) 9.25 (1957)	37.2 (1962) 6.14 (2003)	20.2 (1998) 4.33 (2003)	15.0 (2004) 3.50 (2003)	10.6 (1984) 3.67 (2003)	17.1 (2004) 3.90 (2003)	74.5 (1962) 9.11 (1991)	329 (1996) 65.7 (1995)	596 (1997) 69.8 (1954)	425 (1983) 24.4 (2002)	104 (1983) 11.1 (1954)	78.1 (1997) 11.8 (1956)		
SUMMAR	Y STATIST	TICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 195	53 - 2004		
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS		1	e800	4.0 0 May 3.0 Feb 3.2 Jan	16	43 6 6 53	11.6 34 Aug 26.4 Fel 26.8 Fel 33 Aug 6.44 Aug	5 26 5 23 g 18	45,:	a3.0 Ja 3.2 Ja 976 Ju b7.19 Ju	1983 1954 un 30, 1957 an 13, 1963 an 18, 2003 un 30, 1957 un 30, 1957			
	ENT EXCEE ENT EXCEE			1	7 3.5		1	9 9.2			18 6.5			

e Estimated.

Also occurred Feb 16, 2003.

a Also occurred Feb 16, 2003.b Maximum gage height, 7.44 ft, Jun 1, 2003, backwater from debris.

#### 09019500 COLORADO RIVER NEAR GRANBY, CO

 $LOCATION.--Lat~40^{\circ}07^{\circ}15", long~105^{\circ}54^{\circ}00", in~SW^{1}_{4}NW^{1}_{4}sec. 22,~T.2~N.,~R.76~W.,~Grand~County,~Hydrologic~Unit~14010001, on~right~bank~0.3~mi~upstream~from~bridge~on~U.S.~Highway~34,~1.3~mi~upstream~from~Willow~Creek,~and~3.2~mi~northeast~of~Granby.$ 

DRAINAGE AREA.--323 mi<sup>2</sup>

PERIOD OF RECORD.--October 1907 to September 1911 (published as Grand River near Granby), October 1933 to September 1953. May 1961 to current year (irrigation season only). Monthly discharge only for some periods, published in WSP 1313. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09019500

REVISED RECORDS .-- WSP 2124: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,960 ft above NGVD of 1929, from topographic map. June 10, 1908 to Sept. 30, 1911, and May 12 to June 10, 1934, nonrecording gage, at site 300 ft upstream at different datums. June 11, 1934 to Sept. 30, 1953, water-stage recorder at present site and datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Lake Granby (station 09018500) since Sept. 13, 1949. Several diversions for irrigation of hay meadows upstream from station. Transmountain diversions upstream from station by Eureka and Grand River Ditches and Alva B. Adams Tunnel (see elsewhere in this report).

EXTREMES FOR PERIOD OF SEASONAL RECORD.--Maximum discharge, 2,520 ft<sup>3</sup>/s, June 22, 1996, 5.76 ft; minimum daily, 9.6 ft<sup>3</sup>/s, Sept. 21, 1981.

EXTREMES FOR PERIOD OF CONTINUOUS RECORD.—Maximum discharge observed, 4,100 ft<sup>3</sup>/s, June 20, 1909, gage height 5.5 ft site and datum then in use; minimum daily, 6.6 ft<sup>3</sup>/s, Jan. 29, 1950; minimum observed prior to starting construction of Shadow Mountain Lake, 20 ft<sup>3</sup>/s, Apr. 6, 1936 (discharge measurement).

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 82 ft<sup>3</sup>/s, July 21, gage height, 1.19 ft; minimum daily, 20 ft<sup>3</sup>/s, Sept. 2, 3, 16, 17.

#### DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								63	52	45	56	22
								61	52	47	57	20
2 3								60	53	47	56	20
3												
4								59	53	44	55	21
5								59	52	46	54	21
6								58	52	45	53	21
7								57	54	43	53	21
8								57	54	45	54	21
9								57	54	44	46	21
10								58	54	45	27	21
10								30	54	43	21	21
11								60	54	43	28	21
12								61	54	42	28	21
13								58	53	43	27	21
14								56	52	46	27	21
15								54	52	53	28	21
13								34	32	33	20	21
16								53	53	55	28	20
17								54	53	55	28	20
18								56	52	56	28	21
19								56	50	55	30	21
20								55	48	55	28	21
20								33	40	33	20	21
21								52	50	58	26	22
22								54	50	58	26	22
23								53	51	53	27	21
24								53	49	60	27	21
25								54		60	27	21
23								34	48	00	2.7	21
26								54	50	60	29	21
27								53	47	54	29	21
28								53	48	53	29	21
29								55	47	54	29	22
30								54	52	53	29	23
31								53		56	29	
TOTAL								1.740	1.540	1.572	1.000	(22
TOTAL								1,740	1,543	1,573	1,098	632
MEAN								56.1	51.4	50.7	35.4	21.1
MAX								63	54	60	57	23
MIN								52	47	42	26	20
AC-FT								3,450	3,060	3,120	2,180	1,250
-								- /	. ,	- / -	,	,

# 09022000 FRASER RIVER AT UPPER STATION, NEAR WINTER PARK, CO

LOCATION.--Lat 39°50′45″, long 105°45′05″, in sec.26, T.2 S., R.75 W., Grand County, Hydrologic Unit 14010001, on left bank 0.8 mi upstream from Parsenn Creek, 2.5 mi south of Winter Park, and 7.8 mi southeast of Fraser.

DRAINAGE AREA.--10.5 mi<sup>2</sup>.

PERIOD OF RECORD.--May to September 1908, July to November 1909 (published as "at upper station near Fraser"), October 1968 to September 1973, August 1984 to current year. January to September 1911, gage heights only (published as "near Fraser"). Records for August to December 1910, published in WSP 289 as "near Fraser" are unreliable and should not be used. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09022000

GAGE.--Water-stage recorder with satellite telemetry and concrete control. Elevation of gage is 9,520 ft above NGVD of 1929, from topographic map. Prior to Oct. 1, 1968, nonrecording gage at site 0.9 mi upstream at different datum. Since Oct. 1, 1968, supplementary water-stage recorder and Parshall flume on Berthoud Pass Ditch.

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversions upstream from station through Berthoud Pass Ditch to West Fork Clear Creek Basin.

					R YEAR OC		ET PER SECO TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	9.9 10 10 9.6 9.3	5.5 5.5 5.6 5.4 e5.7	3.3 3.2 3.2 e3.3 e3.4	e3.8 e3.8 e3.8 e3.8	e3.5 e3.5 e3.5 e3.5 e3.5	e3.2 e3.0 e3.0 e3.0 e2.8	6.5 6.2 6.1 6.8 7.1	7.2 8.1 11 14 17	21 21 21 21 21 24	20 19 19 19 18	10 11 11 9.8 10	6.3 6.2 6.2 6.8 7.0
6 7 8 9 10	9.1 9.1 8.8 8.6 8.7	6.0 5.8 5.7 e5.7 5.7	3.4 3.5 3.5 e3.6 e3.8	e3.7 e3.6 2.6 3.2	e3.5 e3.5 e3.5 e3.5 e3.5	e2.5 1.7 1.4 e2.0 e2.0	7.2 6.9 7.0 6.4 5.2	21 23 24 26 30	29 38 40 47 42	18 18 18 17	9.8 9.2 8.7 8.3 8.2	6.4 6.0 5.7 5.8 6.1
11 12 13 14 15	8.7 8.1 7.9 e7.9 7.6	5.4 5.7 5.5 5.5 5.2	4.0 3.5 3.4 3.6 e3.8	e3.5 3.4 2.3 3.0 e3.0	e3.5 3.4 3.0 e3.3 e3.5	e2.2 e2.5 2.9 e3.0 2.8	6.2 5.2 5.9 6.2 6.8	34 28 23 20 19	34 28 27 28 29	16 16 15 16 16	7.8 7.5 7.7 8.5 8.3	6.2 5.8 6.0 5.7 5.3
16 17 18 19 20	7.4 7.3 7.1 7.0 6.9	e5.0 4.8 4.9 4.6 5.4	e4.0 e4.0 3.6 e3.6 e3.6	e3.0 e3.0 e3.0 e3.0 e3.3	3.5 2.1 e2.8 e3.0 e3.0	2.5 2.5 2.8 2.9 3.4	7.8 9.5 9.5 8.3 e5.8	19 19 21 26 33	29 27 28 27 27	17 16 15 16 16	8.1 8.0 8.3 9.4 8.5	5.2 5.6 5.8 6.5 5.9
21 22 23 24 25	6.8 6.7 6.6 6.5 6.0	5.5 4.1 4.4 e4.4 e4.2	e3.5 3.5 e3.6 e3.6 e3.7	e3.3 3.5 e3.5 e3.5 e3.5	e3.2 e3.4 e3.5 e3.5 e3.5	4.3 5.2 5.6 5.3 5.8	7.3 6.6 5.8 7.4 5.7	36 33 31 29 27	25 23 21 20 20	15 15 15 14 13	7.8 7.4 7.0 6.7 6.8	6.1 5.4 5.7 6.1 6.1
26 27 28 29 30 31	e6.4 6.6 6.4 6.0 5.8 5.4	e4.0 2.9 0.99 2.7 3.3	3.8 e3.8 e3.8 e3.8 e3.8 e3.8	e3.5 e3.5 e3.5 e3.5 e3.5 e3.5	e3.5 e3.5 e3.5 e3.5	6.7 6.0 5.0 8.4 6.8 6.1	6.3 7.5 8.3 8.7 7.8	26 25 28 26 22 22	20 20 20 19 20	13 13 12 12 11 11	6.7 7.1 6.7 6.3 6.2 6.2	5.9 5.6 5.5 5.7 6.5
TOTAL MEAN MAX MIN AC-FT	238.2 7.68 10 5.4 472	145.09 4.84 6.0 0.99 288	112.0 3.61 4.0 3.2 222	104.6 3.37 3.8 2.3 207	97.2 3.35 3.5 2.1 193	117.3 3.78 8.4 1.4 233	208.0 6.93 9.5 5.2 413	728.3 23.5 36 7.2 1,440	796 26.5 47 19 1,580	486 15.7 20 11 964	253.0 8.16 11 6.2 502	179.1 5.97 7.0 5.2 355
MEAN MAX (WY) MIN (WY)	5.74 9.66 (1985) 2.69 (2003)	4.04 5.75 (2000) 2.49 (2003)	3.04 5.11 (1998) 1.62 (1995)	2.40 3.37 (2004) 1.63 (1987)	2.11 3.35 (2004) 1.45 (1987)	2.19 3.78 (2004) 1.41 (1987)	4.48 6.93 (2004) 2.12 (1973)	27.6 50.6 (2000) 8.10 (1995)	66.8 124 (1997) 17.5 (2002)	27.4 74.6 (1995) 6.99 (2002)	11.9 21.3 (1999) 3.70 (2002)	7.95 13.4 (2003) 2.80 (2002)
SUMMAI	RY STATIST	TICS		FOR 2003 C	CALENDAR '	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 1969	9 - 2004
SUMMARY STATISTICS  ANNUAL MEAN  HIGHEST ANNUAL MEAN  HIGHEST ANNUAL MEAN  LOWEST ANNUAL MEAN  HIGHEST DAILY MEAN  LOWEST DAILY MEAN  ANNUAL SEVEN-DAY MINIMUM  MAXIMUM PEAK FLOW  MAXIMUM PEAK STAGE  ANNUAL RUNOFF (AC-FT)  10 PERCENT EXCEEDS  90 PERCENT EXCEEDS			Л	220 ( 2 12,086 4'	5.7 ) Jun ).99 Nov 2.0 Jan	28	6,87	0.99 Nov 2.0 Mar 59 Jun 1.53 Jun		b	0.99 No 1.4 Fe 291 Ju	1997 2002 n 7, 1997 v 28, 2003 b 20, 1989 n 8, 1997 n 8, 1997

Also occurred Jun 1, 2003.

From rating curve extended above 140 ft<sup>3</sup>/s.

c Maximum gage height 2.26 ft, Jun 4, 1997, backwater from debris.

204 FRASER RIVER BASIN

#### 09024000 FRASER RIVER AT WINTER PARK, CO

LOCATION.--Lat 39°54′00", long 105°46′34", in SE  $^1\!\!/_4$  sec.4, T.2 S., R.75 W., Grand County, Hydrologic Unit 14010001, on left bank 500 ft downstream from bridge on U.S. Highway 40, 1.4 mi south of Winter Park, 2.0 mi upstream from Vasquez Creek, 3.5 mi downstream from point of diversion for Moffat water tunnel, and 3.9 mi southeast of Fraser.

DRAINAGE AREA.--27.6 mi<sup>2</sup>.

PERIOD OF RECORD.--September 1910 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as "near Arrow" 1910-23, as "near West Portal" 1924-39, and as "near Winter Park" 1990-1992. Records since June 9, 1936, equivalent to earlier records if transmountain diversions are added to flow past station. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09024000

REVISED RECORDS.--WSP 929: Drainage area. WDR CO-89-2: 1988 (M).

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 8,906.23 ft above NGVD of 1929, Colorado State Highway Datum (levels by U.S. Geological Survey). Sept. 23, 1910 to May 12, 1916, nonrecording gage at trail bridge 0.6 mi upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversions upstream from station through Berthoud Pass Ditch (see elsewhere in this report) and to Moffat water tunnel (not known since 1968).

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES  DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	4.4 4.7 4.6 4.2 4.6	7.3 7.4 8.0 7.5 e7.6	9.6 9.7 9.5 e9.5 e9.5	10 10 10 10 e10	8.6 8.7 e8.7 8.6 e8.6	e9.8 e9.9 e9.9 e10 e10	7.4 7.8 8.1 7.9 8.8	6.0 6.2 7.4 8.9 9.3	8.8 8.8 8.6 8.3 8.0	8.0 7.1 8.6 9.1 9.4	9.6 9.6 9.7 9.6 9.9	9.7 9.6 9.7 10 11		
6 7 8 9 10	4.3 4.4 4.5 4.6 4.3	7.7 7.1 7.7 e7.7 8.3	9.4 9.6 9.3 9.5 e9.7	e10 11 11 11 11	e8.8 e8.9 e8.9 e8.9 e9.0	e10 e10 e10 e10 e9.9	9.7 9.2 9.1 8.9 7.2	9.3 9.4 9.0 9.2 9.7	7.6 7.2 7.4 9.2 7.1	9.0 9.0 8.8 8.8 9.3	10 9.9 9.7 9.5 9.5	10 9.8 9.9 9.7 9.8		
11 12 13 14 15	4.8 4.1 4.4 4.2 4.0	8.4 8.0 8.2 8.7 8.3	9.9 9.9 9.6 9.6 9.7	11 e11 e11 e10 10	e9.2 e9.2 e9.3 e9.3	e9.2 e9.1 e8.9 e8.8 e8.8	6.8 6.8 6.6 7.1 7.6	10 10 10 9.5 9.2	7.3 7.5 7.1 6.6 6.6	9.0 9.1 9.1 8.8 9.4	10 9.8 9.8 9.7 9.5	9.7 9.7 9.4 9.4 7.2		
16 17 18 19 20	4.7 4.3 4.2 4.4 4.0	8.4 8.9 e8.8 e8.6 e8.6	e9.8 e10 e9.8 e10 9.8	10 e10 e9.8 e9.8 9.8	e9.0 e9.0 e9.0 e9.1 e9.1	e8.6 e8.6 e8.6 e8.6	8.5 9.0 8.7 7.8 7.6	9.4 9.4 9.7 9.9	6.9 7.4 7.5 7.2 6.7	9.5 9.2 9.1 9.9 9.8	9.7 9.8 10 11 9.9	3.7 3.6 3.5 3.8 3.7		
21 22 23 24 25	4.4 4.6 4.6 e4.6 4.7	e8.6 e8.6 e8.7 e8.9 e9.0	9.8 9.8 10 10	e9.8 e9.8 e9.7 9.5 9.3	e9.1 e9.1 e9.2 e9.2 e9.5	e8.6 e8.4 e8.4 8.3 8.9	7.4 7.0 6.9 6.6 6.7	9.9 9.6 9.3 9.7 9.6	8.2 7.4 6.4 6.5 7.0	9.2 9.2 9.8 10 9.9	9.5 9.6 9.6 9.6 10	3.8 3.8 3.5 3.6 3.6		
26 27 28 29 30 31	4.5 4.6 5.0 e6.0 e6.5 e7.6	e9.1 e9.3 e9.4 e9.4	10 10 10 10 10 10	9.7 9.5 9.5 9.2 8.9 8.6	e9.6 e9.8 e9.8 e9.8	9.0 7.9 6.9 7.3 7.2 7.3	6.8 7.6 8.1 8.0 7.2	9.4 9.0 9.2 9.9 9.8 9.3	7.5 9.0 7.7 7.0 9.0	9.7 10 9.8 9.9 9.7 9.7	9.9 10 10 9.7 9.8 9.8	3.4 3.4 3.6 4.0 5.7		
TOTAL MEAN MAX MIN AC-FT	30 e6.5 9.6 10 31 e7.6 10 FAL 144.8 251.8 303.0 AN 4.67 8.39 9.77 X 7.6 9.6 10 N 4.0 7.1 9.3			309.9 10.0 11 8.6 615	264.3 9.11 9.8 8.6 524	275.5 8.89 10 6.9 546	232.9 7.76 9.7 6.6 462	286.2 9.23 10 6.0 568	227.5 7.58 9.2 6.4 451	286.9 9.25 10 7.1 569	303.7 9.80 11 9.5 602	201.3 6.71 11 3.4 399		
							ATER YEAI		111	47.2	10.2	12.0		
MEAN MAX (WY) MIN (WY)	10.6 31.0 (1914) 2.93 (1957)	9.38 20.4 (1928) 2.72 (1965)	7.55 21.1 (1928) 2.83 (1965)	6.64 12.1 (1928) 2.92 (1967)	6.21 9.88 (1938) 3.11 (1933)	6.63 13.6 (1918) 3.58 (1990)	12.5 31.5 (1925) 5.05 (1970)	47.7 163 (1928) 7.42 (1954)	111 354 (1918) 5.76 (1954)	47.3 209 (1957) 4.92 (1954)	19.3 72.2 (1929) 3.37 (1954)	12.8 46.0 (1925) 2.57 (1966)		
SUMMAR	RY STATIST	ICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 191	1 - 2004		
SUMMARY STATISTICS  ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 90 PERCENT EXCEEDS 90 PERCENT EXCEEDS			1	a11,390	5.7 ) Jun 4.0 Oct 4.3 Oct	15	1 26,12	18.44 1	n 7 226 222 127 127	•	b2.0 M 2.1 O 820 Ju c2.90 Ju	1914 1954 In 14, 1918 ar 29, 1912 ct 5, 1956 In 13, 1918 In 13, 1918		

e Estimated.

a Significantly affected by upstream diversions into the Moffat water tunnel.
b Also occurred Mar 30, Apr 9, 1912, and Jan 23, 1915.
c Maximum gage height, 2.95 ft, Jun 9, 1997.

#### 09025000 VASQUEZ CREEK AT WINTER PARK, CO

LOCATION.--Lat 39°55′13", long 105°47′05", in NE  $^1$ /<sub>4</sub>NW  $^1$ /<sub>4</sub> sec. 33. T.1 S., R.75 W., Grand County, Hydrologic Unit 14010001, on right bank 30 ft downstream from bridge on U.S. Highway 40, 0.2 mi upstream from mouth, 2.5 mi southeast of Fraser, and 4.5 mi downstream from Moffat water tunnel diversion.

DRAINAGE AREA.--27.8 mi<sup>2</sup>.

PERIOD OF RECORD.--June to August 1907, July to November 1909, October 1933 to current year. Monthly discharge only for some periods, published in WSP 1313.

Records for June to October 1908, published in WSP 269, are unreliable and should not be used. Published as Vasquez River at lower station, near Fraser 1907-09, as "near West Portal" 1934-39, and as "near Winter Park" 1940-87. Records for May 26, 1937 to September 1959, equivalent to earlier records if diversion to Moffat water tunnel is added to flow past station. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09025000

REVISED RECORDS.--See PERIOD OF RECORD.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 8,768.48 ft above NGVD of 1929. June 1, 1907 to Oct. 31, 1909, nonrecording gage at site 0.8 mi upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversions upstream from station to Moffat water tunnel not known since

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES  DAY OCT NOV DEC IAN EED MAD AND MAY HIM AUG SEP													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	18 7.6 6.9 6.9 6.9	6.5 6.8 6.9 6.8 9.2	e6.4 e6.4 e6.5 e6.4	e6.3 e6.3 e6.3 e6.3	e6.1 e6.2 e6.3 e6.4	6.9 e6.5 6.3 6.0 6.1	7.0 7.2 7.2 7.3 7.4	6.5 5.8 6.2 7.0 7.2	4.8 4.4 4.7 4.8 4.8	7.2 5.1 4.8 4.8 5.0	9.3 9.3 9.3 9.3 9.4	8.8 8.6 8.8 9.3 9.6		
6 7 8 9 10	6.5 6.4 6.1 6.1 6.1	8.7 8.3 8.0 7.1 6.7	e6.4 e6.4 e6.3 e6.3	e6.3 e6.3 e6.3 e6.3	e6.4 e6.4 e6.5 e6.5 e6.5	6.1 6.1 5.8 6.1 6.0	7.6 7.6 7.5 7.6 7.3	7.2 7.1 7.2 7.2 7.2	4.8 4.6 3.7 4.1 4.1	5.2 5.1 5.4 5.4 5.5	9.3 9.3 9.3 9.3 9.0	9.3 9.2 9.3 9.1 8.8		
11 12 13 14 15	6.5 6.2 6.1 5.9 5.8	7.0 6.8 7.2 6.6 6.5	e6.3 e6.3 e6.3 e6.3	e6.3 e6.3 e6.3 e6.3	e6.5 e6.5 e6.5 e6.5 e6.5	7.3 7.6 7.1 7.8 6.3	7.3 7.3 7.2 7.2 7.2	7.2 7.6 7.6 6.6 7.0	3.8 3.6 3.8 3.7 3.5	5.4 5.4 5.5 6.1	8.8 8.8 9.1 9.3 9.0	8.8 8.8 8.8 8.8		
16 17 18 19 20	5.9 6.5 6.0 6.1 6.2	e6.5 e6.5 e6.6 e6.6 e6.6	e6.3 e6.3 e6.3 e6.3	e6.3 e6.3 e6.3 e6.3	e6.5 e6.6 e6.6 e6.6 e6.6	7.2 5.9 6.4 7.0 7.1	7.4 7.6 7.6 7.6 7.5	6.7 6.3 5.0 5.2 5.3	3.2 3.7 4.1 4.5 4.5	6.1 6.2 5.8 5.6 6.1	8.8 8.9 9.0 9.3 9.0	4.4 3.5 3.5 3.6 4.3		
21 22 23 24 25	6.0 6.1 6.1 6.5 6.8	e6.6 e6.6 e6.6 e6.6	e6.3 e6.3 e6.3 e6.3	e6.3 e6.3 e6.3 e6.3	e6.7 e6.7 e6.7 e6.7 7.1	7.1 7.3 7.3 7.3 7.3	7.5 7.3 7.2 7.2 7.6	5.1 5.1 5.0 4.8 4.5	5.1 5.3 4.9 4.4 4.0	5.9 5.4 6.0 9.9 9.5	8.8 8.8 8.8 8.8	4.2 4.3 4.4 3.8 3.6		
26 27 28 29 30 31	8.4 7.5 6.9 6.8 6.6 6.5	e6.5 e6.5 e6.5 e6.4	e6.3 e6.3 e6.3 e6.3 e6.3	e6.3 e6.2 e6.2 e6.2 e6.2 e6.0	6.6 6.5 6.9 7.3	7.4 7.3 7.3 8.2 7.7 7.1	7.7 7.8 8.1 8.4 8.3	4.5 4.2 4.1 4.2 4.7 4.8	4.3 5.1 5.3 5.1 6.4	9.4 9.3 9.3 9.3 9.3	8.8 8.8 8.8 8.6 8.6	3.8 3.9 4.1 4.3 4.9		
TOTAL MEAN MAX MIN AC-FT	212.9 6.87 18 5.8 422	207.3 6.91 9.2 6.4 411	196.2 6.33 6.5 6.3 389	194.6 6.28 6.3 6.0 386	190.0 6.55 7.3 6.1 377	212.9 6.87 8.2 5.8 422	224.7 7.49 8.4 7.0 446	184.1 5.94 7.6 4.1 365	133.1 4.44 6.4 3.2 264	203.7 6.57 9.9 4.8 404	279.2 9.01 9.4 8.6 554	195.3 6.51 9.6 3.5 387		
MEAN MAX (WY) MIN (WY)	6.10 35.1 (1962) 0.66 (1965)	6.65 21.9 (1962) 1.84 (1963)	5.62 13.4 (1962) 1.30 (1965)	5.01 10.0 (1958) 1.28 (1965)	4.69 9.99 (1958) 0.80 (1960)	4.82 9.14 (1995) 1.02 (1965)	7.63 19.8 (1943) 2.41 (1965)	26.4 119 (1958) 2.81 (1954)	65.4 234 (1942) 0.14 (1940)	22.2 177 (1983) 0.34 (1956)	8.24 41.2 (1936) 0.39 (1960)	6.88 27.0 (1995) 0.20 (1944)		
SUMMAF	RY STATIST	TICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 19	34 - 2004		
SUMMARY STATISTICS  ANNUAL MEAN  HIGHEST ANNUAL MEAN  HIGHEST ANNUAL MEAN  HIGHEST DAILY MEAN  LOWEST DAILY MEAN  ANNUAL SEVEN-DAY MINIMUM  MAXIMUM PEAK FLOW  MAXIMUM PEAK STAGE  ANNUAL RUNOFF (AC-FT)  10 PERCENT EXCEEDS  50 PERCENT EXCEEDS  90 PERCENT EXCEEDS		Л	a10,070 27	3.9 2 Jun 3.2 Apr 3.6 Mar	8	1 2 a4,83	8 Oc 3.2 Jur 3.6 Jur 21 Oc 1.80 Oc	t 1 116 111 t 1 t 1	4	b0.00 S 0.00 S 526 J 4.14 J	1936 1963 un 25, 1983 ep 9, 1944 ep 9, 1944 un 27, 1983 un 27, 1983			

e Estimated.

Significantly affected by upstream diversions into the Moffat water tunnel.
 Also no flow at times in 1946, 1956, 1960, and 1966.

c From rating curve extended above 286 ft<sup>3</sup>/s.

FRASER RIVER BASIN 206

# 09025300 ELK CREEK AT UPPER STATION NEAR FRASER, CO

LOCATION.--Lat 39°53'22", long 105°49'55", (unsurveyed), T.2 S., R.76 W., Grand County, Hydrologic Unit 14010001, on right bank 150 ft downstream from Main Elk dam on the St. Louis collection system, 1,100 ft upstream from aqueduct, and 4.0 mi south of Fraser.

DRAINAGE AREA.--1.67 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1996 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=09025300

GAGE.--Water-stage recorder. Elevation of gage is 9,400 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversions upstream from station to Moffat water tunnel.

				WAT	ER YEAR OC		ET PER SECO 3 TO SEPTEM VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.88 1.00 0.98 0.94 0.94	e0.00 e0.00 e0.00 e0.00 e0.00	e0.00 e0.00 e0.00 e0.00 e0.00	e0.00 e0.00 e0.00 e0.00 e0.00	e0.00 e0.00 e0.00 e0.00 e0.00	e0.00 e0.00 e0.00 e0.00 e0.00	e0.03 e0.09 e0.11 e0.14 e0.17	e0.90 e1.1 e1.5 e1.6 e1.7	2.5 2.6 2.9 3.1 3.3	2.4 2.2 2.1 2.0 2.0	1.2 1.3 1.2 1.2 1.4	0.91 0.88 0.86 0.93 1.1
6 7 8 9 10	0.94 0.92 0.89 0.82 0.85	e0.00 e0.00 e0.00 e0.00 e0.00	e0.00 e0.00 e0.00 e0.00 e0.00	e0.00 e0.00 e0.00 e0.00 e0.00	e0.00 e0.00 e0.00 e0.00 e0.00	e0.00 e0.00 e0.00 e0.00 e0.00	e0.19 e0.22 e0.24 e0.29 e0.31	e1.9 2.0 1.9 1.1 1.9	3.4 3.4 3.3 3.4 3.1	2.1 1.9 1.8 1.7	1.3 1.2 1.2 1.2 1.1	0.98 0.91 0.86 0.85 0.89
11 12 13 14 15	0.94 0.82 0.83 0.82 0.82	e0.00 e0.00 e0.00 e0.00 e0.00	e0.00 e0.00 e0.00 e0.00 e0.00	e0.00 e0.00 e0.00 e0.00 e0.00	e0.00 e0.00 e0.00 e0.00 e0.00	e0.00 e0.00 e0.00 e0.00 e0.00	e0.33 e0.35 e0.35 e0.36 e0.37	3.0 3.1 2.8 2.6 2.4	2.4 2.7 3.4 3.4 3.3	1.6 1.6 1.5 1.7	1.1 1.1 1.1 1.1 1.1	0.90 0.80 0.79 0.78 0.80
16 17 18 19 20	e0.82 e0.82 e0.82 e0.82 e0.82	e0.00 e0.00 e0.00 e0.00 e0.00	e0.00 e0.00 e0.00 e0.00 e0.00	e0.00 e0.00 e0.00 e0.00 e0.00	e0.00 e0.00 e0.00 e0.00 e0.00	e0.00 e0.00 e0.00 e0.00 e0.00	e0.42 e0.46 e0.47 e0.51 e0.56	2.4 2.5 2.8 2.9 2.8	3.3 3.2 3.1 2.7 2.7	1.7 1.6 1.5 1.7 e1.6	1.1 1.1 1.2 1.4 1.2	0.77 0.75 0.73 0.74 0.79
21 22 23 24 25	e0.82 e0.82 e0.82 e0.82 e0.82	e0.00 e0.00 e0.00 e0.00 e0.00	e0.00 e0.00 e0.00 e0.00 e0.00	e0.00 e0.00 e0.00 e0.00 e0.00	e0.00 e0.00 e0.00 e0.00 e0.00	e0.00 e0.00 e0.00 e0.00 e0.00	e0.60 e0.62 e0.62 e0.64 e0.64	2.8 3.0 2.9 3.0 2.9	3.0 3.0 2.8 2.7 2.6	e1.6 e1.5 e1.5 e1.5 e1.4	1.2 1.2 1.1 1.1 1.0	0.82 0.78 0.80 0.83 0.79
26 27 28 29 30 31	e0.82 e0.82 e0.82 e0.82 e0.82 e0.00	e0.00 e0.00 e0.00 e0.00 e0.00	e0.00 e0.00 e0.00 e0.00 e0.00 e0.00	e0.00 e0.00 e0.00 e0.00 e0.00 e0.00	e0.00 e0.00 e0.00 e0.00	e0.00 e0.00 e0.00 e0.00 e0.00 e0.00	e0.64 e0.65 e0.68 e0.73 e0.83	2.9 3.0 3.1 3.1 2.9 2.6	2.6 2.6 2.6 2.3 2.5	e1.4 e1.4 1.3 1.3 1.2	1.0 1.1 0.99 0.93 0.93 0.92	0.74 0.71 0.71 0.77 0.84
TOTAL MEAN MAX MIN AC-FT	25.69 0.83 1.0 0.00 51	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	12.62 0.42 0.83 0.03 25	75.10 2.42 3.1 0.90 149	87.9 2.93 3.4 2.3 174	51.4 1.66 2.4 1.2 102	35.27 1.14 1.4 0.92 70	24.81 0.83 1.1 0.71 49
MEAN MAX (WY) MIN (WY)	0.54 0.83 (2004) 0.22 (2002)	0.09 0.68 (1997) 0.00 (1998)	0.08 0.67 (1997) 0.00 (1998)	0.08 0.64 (1997) 0.00 (1998)	0.06 0.47 (1997) 0.00 (1998)	0.05 0.41 (1997) 0.00 (1999)	0.34 1.60 (2003) 0.00 (1999)	1.90 6.72 (2003) 0.17 (1997)	6.85 16.3 (1997) 2.27 (2002)	2.41 3.73 (2003) 0.92 (2002)	1.29 2.03 (1999) 0.62 (2002)	0.90 1.28 (2003) 0.57 (2002)
SUMMAF	RY STATIST	ΓICS		FOR 2003	CALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 19	997 - 2004
SUMMARY STATISTICS  ANNUAL MEAN HIGHEST ANNUAL MEAN HIGHEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			ΙΜ	; ;	e0.00 Jan	29 1 1 1 1	c, (	e0.00 Oct e0.00 Oct 3.7 Jur f5.14 Jur	1 6 131 131 1 6 1 6		d0.00 N 0.00 N 22	2003 2002 Jun 10, 1997 Aay 7, 1997 Auy 7, 1997 Jun 10, 1997 Jun 10, 1997

Estimated.

Significantly affected by upstream diversions into the Moffat water tunnel. Also occurred May 29, 2003.

c No flow many days. Many values estimated.
d No flow many days each year.
f Maximum gage height 5.16 ft, May 10.

# 09026500 ST. LOUIS CREEK NEAR FRASER, CO

LOCATION.--Lat 39°54'36", long 105°52'40", in SE1/4SW1/4 sec.34, T.1 S., R.76 W., Grand County, Hydrologic Unit 14010001, on left bank 300 ft downstream from West St. Louis Creek, and 4.1 mi southwest of Fraser.

DRAINAGE AREA.--32.9 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1933 to current year. Prior to August 1934, monthly discharge only, published in WSP 1313. Records for May 1956 to September 1959, equivalent to earlier records if diversion to Moffat water tunnel is added to flow past station. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09026500

REVISED RECORDS .-- WSP 2124: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 8,980.17 ft above NGVD of 1929.

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversions upstream from station to Moffat water tunnel not known since

					R YEAR OC		ET PER SECO TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	9.3 9.4 9.2 9.3	9.4 9.6 9.7 9.8 e9.8	9.4 9.3 9.2 9.1 9.4	e10 e10 e10 e11 e11	e7.0 e6.8 e6.8 e6.6 e6.5	e6.8 e6.9 e7.0 e7.1 e7.2	8.0 8.0 7.8 7.4 8.0	9.4 10 12 12 11	12 12 13 15 17	11 11 10 12 13	14 17 16 14 13	9.6 9.4 8.9 9.4 12
6 7 8 9 10	9.1 9.1 8.7 8.9 9.1	9.8 9.4 9.5 e9.5 9.8	9.4 9.4 9.6 9.7 10	e11 e11 e11 e11 e10	e6.4 e6.4 e6.3 e6.2	e7.3 e7.4 e7.6 e7.8 e7.6	8.1 8.0 7.9 8.1 7.6	9.4 8.6 9.0 8.6 10	15 14 14 16 13	13 12 12 12 11	13 12 12 12 12	12 12 11 9.9 9.6
11 12 13 14 15	e9.4 e9.4 e9.4 9.4 9.4	e9.8 e9.8 9.7 9.7 9.4	9.8 9.8 9.7 9.4 9.6	e10 e9.8 e10 e11 e11	e6.0 e6.0 e6.0 e6.0	e7.4 e7.6 e7.8 e7.8 e7.9	8.2 8.5 7.5 7.8 7.8	18 17 12 10 11	12 12 12 12 12	11 11 11 12 14	12 12 12 12 12	10 9.8 9.3 9.1 8.5
16 17 18 19 20	9.4 9.4 9.4 9.4 9.3	e9.6 9.6 e9.6 e9.7	9.8 e10 10 11	e10 e9.6 e9.2 e9.2 e9.0	e6.0 e5.8 e5.8 e5.8 e5.6	e8.2 e8.4 e8.5 e8.6 e8.7	8.0 8.5 8.5 7.3 7.1	11 11 13 15 10	12 13 14 13 12	15 12 12 11 13	12 11 13 17 12	7.0 6.1 5.9 5.9 6.3
21 22 23 24 25	9.3 9.2 9.1 9.4 9.1	e9.7 9.8 e9.8 e9.8 e9.8	10 10 e9.8 e9.8 e9.8	e8.8 e8.4 e8.2 e8.0 e8.2	e6.0 e6.0 e6.0 e6.0	e9.0 e9.2 e9.4 e9.3 e9.2	7.2 6.8 6.6 7.1 7.0	11 11 10 12 12	12 12 12 12 12	12 11 13 16 14	12 12 12 11 11	6.5 7.4 7.4 7.3 7.7
26 27 28 29 30 31	11 11 9.5 9.7 9.7 9.4	e9.8 9.8 9.4 9.4 9.4	e9.9 e9.9 e9.9 e9.9 e10	e8.2 e7.8 e7.4 e7.2 e7.2 e7.2	e6.0 e6.2 e6.4 e6.6	9.1 9.0 e9.0 e8.7 e8.5 e8.2	7.1 7.9 9.2 8.6 9.0	12 13 13 15 14 13	12 12 13 13 14	18 14 14 15 14 14	11 11 11 11 10 9.8	7.7 7.5 7.4 6.7 8.4
TOTAL MEAN MAX MIN AC-FT	304.4 9.82 22 8.7 604	289.5 9.65 9.8 9.4 574	303.5 9.79 11 9.1 602	291.4 9.40 11 7.2 578	179.6 6.19 7.0 5.6 356	252.2 8.14 9.4 6.8 500	234.6 7.82 9.2 6.6 465	364.0 11.7 18 8.6 722	389 13.0 17 12 772	394 12.7 18 10 781	381.8 12.3 17 9.8 757	255.7 8.52 12 5.9 507
MEAN MAX (WY) MIN (WY)	11.7 31.4 (1962) 2.63 (1965)	9.14 19.7 (1996) 2.90 (1967)	7.47 14.3 (1946) 2.28 (1968)	6.73 12.0 (1946) 2.00 (1961)	6.18 11.0 (1946) 2.07 (1968)	6.31 12.0 (1946) 2.35 (1968)	9.27 26.2 (1960) 3.41 (1970)	36.4 102 (1936) 8.62 (1968)	113 263 (1997) 13.0 (2004)	62.7 250 (1995) 11.6 (2002)	23.4 70.1 (1945) 6.38 (2002)	14.2 34.1 (1938) 4.39 (1963)
SUMMAR	XY STATIST	TICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	R YEARS 193	34 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM		И		2.8	22	2	19.94 22 Oc 25.6 Fe	et 1 b 20 b 14		b1.8 J	1995 2002 un 18, 1995 an 25, 1968 an 24, 1968	
LOWEST DAILY MEAN				a16,520	)		a7,22	26 Oc 1.33 Oc	et 1 et 1	a18,	558 J c2.80 J	un 17, 1995 un 17, 1995

Estimated. Significantly affected by upstream diversions into the Moffat water tunnel up. Also occurred Jan 26-30, Feb 1-2, and Feb 14, 1968.

c Maximum gage height, 3.21 ft, Jun 10, 1952, backwater from log on control.

FRASER RIVER BASIN 208

# 09032000 RANCH CREEK NEAR FRASER, CO

 $LOCATION.--Lat~39^{\circ}57'00", long~105^{\circ}45'54", in~NW^{1}/_{4}NE^{1}/_{4}~sec. 22.~T.1~S., R.75~W., Grand~County, Hydrologic~Unit~14010001, on left bank~650~ft~downstream~from~Middle~Fork, and 2.7~mi~east~of~Fraser.$ 

DRAINAGE AREA.--19.9 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1934 to current year. Records for May 26, 1937, to September 1959, equivalent to earlier records if diversion to Moffat water tunnel is added to flow past station. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09032000

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,660 ft above NGVD of 1929, from topographic map. Prior to Oct. 5, 1995, at site 200 ft upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversion upstream from station for irrigation of hay meadows along Fraser River. Transmountain diversions upstream from station to Moffat water tunnel not known since 1959.

					R YEAR OC		ET PER SECO TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	5.6 5.8 5.8 5.7 5.7	4.0 4.1 4.3 3.9 4.7	4.9 4.8 4.8 4.5 4.3	4.0 4.0 4.2 4.1 4.0	3.3 3.3 3.3 3.3 3.3	3.6 3.6 3.7 3.7 3.8	4.5 4.7 4.6 4.5 5.1	4.9 5.0 5.7 6.8 7.8	3.5 4.2 4.2 3.9 3.6	4.3 3.6 3.4 3.3 3.3	5.1 5.3 5.0 5.2	3.4 3.4 3.3 3.6 4.2
6 7 8 9 10	5.6 5.2 4.5 4.5 4.6	4.5 5.2 5.1 e5.0 5.2	4.6 4.8 4.7 4.5 4.5	4.0 3.9 3.8 3.7 3.7	3.3 3.3 3.3 3.3 3.2	3.8 3.9 4.0 4.2 4.2	5.9 5.8 5.4 5.2 4.7	8.3 7.4 7.2 7.2 7.2	3.6 3.4 3.1 3.3 3.2	3.4 3.4 3.6 3.5	5.0 4.7 4.5 4.3 4.2	4.0 3.6 3.3 3.2 3.3
11 12 13 14 15	4.5 4.4 5.2 9.0 9.7	5.4 5.3 5.2 5.4 5.3	4.5 4.4 4.4 4.5 4.5	3.7 3.7 3.6 3.7 3.8	3.2 3.2 3.2 3.2 3.2	3.9 4.0 4.0 3.8 3.8	4.8 4.4 4.2 4.4 4.6	7.4 7.5 7.2 6.8 6.5	3.1 3.5 3.5 3.5 3.5	3.3 3.3 3.6 4.7 4.8	4.2 4.1 4.0 3.9 3.9	3.5 3.3 3.2 3.1 3.0
16 17 18 19 20	9.8 10 9.9 9.8 8.4	5.4 5.1 5.3 e5.4 5.3	4.4 4.3 4.3 4.2 4.3	3.7 3.7 3.6 3.6 3.6	3.2 3.1 3.1 3.2 3.1	3.7 3.6 3.6 3.8 4.2	4.9 5.6 5.8 4.9 4.9	6.4 6.2 6.2 6.0 6.2	3.5 3.8 3.8 3.5 3.1	5.1 5.2 5.0 5.0 5.1	3.8 3.8 4.0 5.5 5.4	3.0 2.8 2.8 3.0 3.2
21 22 23 24 25	5.6 5.4 5.0 4.8 4.4	5.1 5.0 4.9 5.6 5.4	4.3 4.2 4.1 4.2 4.2	3.6 3.4 3.5 3.6 3.6	3.2 3.2 3.2 3.2 3.2	4.8 4.5 4.7 4.8 5.1	4.8 4.7 4.4 4.3 4.3	5.6 5.6 5.4 5.3 5.3	3.3 3.2 3.2 3.0 3.3	5.0 4.9 5.4 5.9 5.7	5.0 5.0 5.0 4.3 4.1	3.2 3.2 3.2 3.2 3.1
26 27 28 29 30 31	e4.6 4.7 4.6 4.6 4.3 4.1	5.3 5.0 4.6 4.8 5.0	4.2 4.2 4.0 3.9 4.0 4.0	3.5 3.5 3.5 3.3 3.4 3.4	3.3 3.3 3.4 3.6	e5.5 5.0 4.5 e5.0 e5.5 e5.3	4.5 5.3 5.7 5.7 5.4	5.1 4.8 4.6 4.0 3.8 3.6	3.6 4.0 3.9 3.6 4.6	5.5 5.4 5.4 5.4 5.3 5.2	4.0 4.2 4.1 3.7 3.6 3.5	3.0 2.9 3.0 3.1 4.1
TOTAL MEAN MAX MIN AC-FT	185.8 5.99 10 4.1 369	1 8 149.8 1 99 4.99 5.6		114.4 3.69 4.2 3.3 227	94.2 3.25 3.6 3.1 187	131.6 4.25 5.5 3.6 261	148.0 4.93 5.9 4.2 294	187.0 6.03 8.3 3.6 371	106.5 3.55 4.6 3.0 211	139.4 4.50 5.9 3.3 276	137.5 4.44 5.5 3.5 273	98.2 3.27 4.2 2.8 195
							ATER YEAI	, ,	747	22.0	7.20	4.02
MEAN MAX (WY) MIN (WY)	4.75 19.6 (1962) 0.98 (1969)	4.12 14.6 (1962) 1.09 (1965)	3.40 8.11 (1962) 0.87 (1965)	3.02 5.63 (1962) 0.89 (1964)	2.71 4.65 (1966) 0.74 (1964)	2.66 5.34 (1950) 0.65 (1964)	5.24 17.4 (1946) 1.61 (1961)	30.5 99.4 (1936) 3.69 (1954)	74.7 206 (1997) 2.68 (1966)	23.9 136 (1995) 1.86 (2002)	7.28 27.3 (1945) 1.20 (2002)	4.92 13.8 (1945) 0.98 (1960)
SUMMAR	RY STATIST	ICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 193	35 - 2004
SUMMARY STATISTICS  ANNUAL MEAN HIGHEST ANNUAL MEAN HIGHEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS		Л	a12,840 60	7.7  ) May 2.4 Jan 2.5 Jan ) )	26	1	2.8 Sep 3.0 Sep 11 May 4.71 May 30 5.6 4.2		4	b0.40 Sc 0.42 Sc 548 Ju 6.71 Ju 090 29 4.0	1983 1964 Jun 7, 1997 ep 21, 1960 ep 21, 1988 Jun 4, 1997 Jun 4, 1997	
90 PERCE	ENT EXCEE	DS		2	2.7			3.2			1.8	

<sup>e Estimated.
a Significantly affected by upstream diversions into the Moffat water tunnel.
b Also occurred Oct 6, 1960, and Sep 24-26, 1988.</sup> 

# 09032100 CABIN CREEK NEAR FRASER, CO

 $LOCATION.--Lat\ 39^{\circ}59'09", long\ 105^{\circ}44'40", in\ NW^{1}{}_{4}SE^{1}{}_{4}\ sec. 2.\ T.1\ S., R.75\ W., Grand\ County,\ Hydrologic\ Unit\ 14010001, on\ left\ bank\ 200\ ft\ downstream\ from\ concrete\ diversion\ dam,\ 2.7\ mi\ upstream\ from\ mouth,\ and\ 4.6\ mi\ northeast\ of\ Fraser.$ 

DRAINAGE AREA.--4.87 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1983 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=09032100

GAGE.--Water-stage recorder. Elevation of gage is 9,560 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversions upstream from station to Moffat water tunnel, amount

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES  DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	1.5 1.5 1.4 1.3 1.3	e2.7 e2.7 e2.7 e2.7 e2.7	e2.1 e2.1 e2.1 e2.1 e1.9	e1.6 e1.6 e1.7 e1.7	e1.4 e1.4 e1.4 e1.4	e1.0 e1.0 e1.0 e1.0 e1.0	e4.6 e4.6 e4.7 e4.8 e5.0	e1.5 e1.6 e1.6 e1.8 e1.1	2.4 2.3 2.5 2.6 2.6	2.6 2.4 2.2 2.2 2.3	2.3 2.2 2.2 2.2 2.2	2.2 2.1 2.0 2.1 2.2		
6 7 8 9 10	1.3 1.2 1.2 1.3 1.2	e2.7 e2.7 e2.7 e2.7 e2.7	e1.9 e1.9 e1.8 e1.8	e1.7 e1.7 e1.7 e1.7 e1.7	e1.4 e1.2 e1.2 e1.2 e1.2	e1.0 e1.0 e1.0 e1.0 e1.0	e5.0 e5.1 e4.4 e4.4 e4.0	e1.1 1.1 1.2 2.6 3.4	2.8 2.8 2.5 2.4 2.4	2.3 2.2 2.3 2.4 2.4	2.3 2.4 2.4 2.4 2.3	2.2 2.1 1.9 2.0 2.1		
11 12 13 14 15	1.2 1.2 2.1 3.2 e3.2	e2.6 e2.6 e2.5 e2.5 e2.5	e1.8 e1.8 e1.8 e1.8	e1.7 e1.7 e1.7 e1.7 e1.7	e1.2 e1.2 e1.1 e1.1	e1.0 e1.0 e1.0 e1.0 e1.0	e3.8 e3.7 e4.4 e5.1 e5.7	2.4 2.3 2.0 1.7 1.7	2.7 3.1 2.9 2.8 2.8	2.3 2.2 2.4 2.3 2.2	2.4 2.3 2.3 2.2 2.2	2.1 2.0 2.0 2.0 2.2		
16 17 18 19 20	e3.3 e3.1 e3.1 e3.1 e3.1	e2.5 e2.5 e2.5 e2.3 e2.3	e1.8 e1.8 e1.6 e1.6	e1.7 e1.7 e1.7 e1.7 e1.6	e1.1 e1.1 e1.1 e1.1	e1.0 e1.0 e1.2 e2.2 e2.3	e6.0 e6.1 e5.2 e4.6 e3.6	1.7 2.0 2.4 2.1 1.4	2.7 2.6 2.5 2.4 2.2	2.3 2.4 2.3 2.3 2.4	2.1 2.1 2.2 2.3 2.1	2.1 2.1 2.0 1.2 0.91		
21 22 23 24 25	e3.1 e3.0 e2.8 e2.8 e2.8	e2.3 e2.3 e2.2 e2.2 e2.1	e1.6 e1.6 e1.6 e1.5	e1.6 e1.6 e1.5 e1.5 e1.5	e1.1 e1.1 e1.1 e1.1	e2.4 e3.2 e3.5 e3.7 e4.0	e3.4 e2.0 e1.8 e2.2 e2.6	1.7 1.6 1.8 2.5 2.4	2.2 2.5 2.8 2.6 2.5	2.6 2.6 2.5 2.5 2.5	1.9 1.5 1.7 1.8 1.8	1.6 1.8 1.8 1.9 2.0		
26 27 28 29 30 31	e2.8 e2.8 e2.8 e2.8 e2.8 e2.8	e2.1 e2.1 e2.1 e2.1 e2.1	e1.6 e1.6 e1.6 e1.6 e1.6 e1.6	e1.5 e1.5 e1.5 e1.5 e1.5 e1.4	e1.1 e1.1 e1.1 e1.1	e4.1 e4.2 e4.3 e4.4 e4.4 e4.5	e2.0 e2.2 e2.2 e1.8 e1.7	1.9 2.3 2.5 2.3 2.1 2.5	2.5 2.5 2.5 2.7 2.8	2.4 2.4 2.4 2.4 2.4 2.4	1.8 1.9 2.0 2.0 2.2 2.2	1.9 1.9 1.9 2.0 2.0		
TOTAL MEAN MAX MIN AC-FT	31 e2.8 OTAL 71.1 73.4 EAN 2.29 2.45 AX 3.3 2.7 IIN 1.2 2.1			50.3 1.62 1.7 1.4 100	34.3 1.18 1.4 1.1 68	65.4 2.11 4.5 1.0 130 - 2004, BY W	116.7 3.89 6.1 1.7 231	60.3 1.95 3.4 1.1 120	77.6 2.59 3.1 2.2 154	73.5 2.37 2.6 2.2 146	65.9 2.13 2.4 1.5 131	58.31 1.94 2.2 0.91 116		
MEAN MAX (WY) MIN (WY)	2.74 6.11 (1997) 1.67 (1990)	2.20 3.49 (1997) 0.48 (1985)	1.60 2.40 (2000) 0.47 (1985)	1.33 2.33 (2000) 0.59 (1985)	1.11 1.67 (2000) 0.30 (1985)	1.17 2.11 (2004) 0.12 (1985)	2.06 3.89 (2004) 0.08 (1985)	10.3 25.5 (1996) 1.60 (1985)	28.1 70.3 (1997) 2.59 (2004)	11.7 46.6 (1995) 2.37 (2004)	4.64 8.05 (1984) 1.91 (1994)	3.15 5.12 (1984) 1.48 (1994)		
SUMMAF	RY STATIST	TCS		FOR 2003 C	CALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 1984	1 - 2004		
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN HIGHEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			Л	a4,10	5.67 0 May 0.88 Mar 0.90 Mar	29	6	0.91 Sep e1.0 Ma o7.6 Oc o1.19 Oc	r 17 5 20 r 1 t 14 t 14		0.04 May 0.07 Ap 162 Jui	1997 2002 n 7, 1997 y 7, 1985 r 12, 1985 n 8, 1997 n 8, 1997		

e Estimated.

Significantly affected by upstream diversions into the Moffat water tunnel.

b May have been higher during period of estimated record in March-April. c Maximum gage height, 2.39 ft, Jun 17, 1995.

210 FRASER RIVER BASIN

# 09033100 RANCH CREEK BELOW MEADOW CREEK NEAR TABERNASH, CO

 $LOCATION.--Lat~39^{\circ}59'57", long~105^{\circ}49'37", in~NW^{1}_{4}NW^{1}_{4}~sec. 6.~T.1~S.,~R.75~W.,~Grand~County,~Hydrologic~Unit~14010001, on~right~bank~about~400~ft~downstream~from~Meadow~Creek,~0.75~mi~northeast~of~Tabernash,~and~0.85~mi~above~mouth.$ 

DRAINAGE AREA.--65.7 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1997 to September 2003. October 2003 to September 2004 (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09033100

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,350 ft above NGVD of 1929, from topographic map.

REMARKS.—Records fair except for estimated daily discharges, which are poor. Diversion upstream from station for irrigation of hay meadows in Fraser River Valley. Transmountain diversion upstream from station to Moffat water tunnel not known since 1959.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 763 ft<sup>3</sup>/s, June 9, 1997, gage height, 7.18 ft; minimum daily, 2.0 ft<sup>3</sup>/s, Sept. 3, 2002.

EXTREMES FOR CURRENT YEAR (seasonal only).—Maximum discharge, 55 ft³/s, June 30, gage height, 4.72 ft; maximum gage height, 5.78 ft, Apr. 2 (backwater from beaver dam); minimum daily, 5.1 ft³/s, Sept. 1 (estimated).

#### DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e31						e30	20	e14	32	8.1	e5.1
2	e17						e30	19	e15	18	8.4	e5.2
3	e17						e28	22	e16	15	9.0	e5.2
4	e17						e28	31	e16	13	8.4	e5.6
5	e17						e28	33	e15	14	8.0	e6.7
6	e16						e29	33	e15	18	8.9	e7.2
7	e16						e30	24	e14	14	8.4	e6.9
8	e16						e30	22	e14	12	8.1	e6.6
9	e16						e30	20	e14	11	8.1	e6.3
10	e16						e28	22	e13	11	8.3	5.8
11	e16						e26	23	e12	11	8.6	e5.7
12	e16						e26	25	e12	10	9.9	e5.9
13	e15						e26	26	e12	9.1	8.9	e5.9
14	e15						e25	22	e12	9.2	8.0	e5.7
15							e25	21	e12	9.7	7.5	e5.6
16							e25	20	e15	11	7.2	e5.6
17							e27	18	e17	14	7.7	5.4
18							e28	19	e19	12	e8.2	5.4
19							e27	18	20	11	e9.6	5.5
20							e26	18	18	11	e10	6.2
21							e26	18	17	11	e10	6.3
22							e26	18	19	12	e10	8.0
23							e25	17	15	13	e9.9	8.1
24							e24	16	13	13	e9.7	7.8
25							e24	16	12	11	e9.2	8.4
26							e24	17	15	10	e8.3	7.9
27							e24	17	16	10	e7.8	7.1
28							e24	e16	17	9.6	e6.9	6.7
29							23	e15	14	9.2	e6.5	6.5
30							24	e15	30	8.8	e5.8	12
31								e15		8.7	e5.5	
TOTAL							796	636	463	382.3	258.9	196.3
MEAN							26.5	20.5	15.4	12.3	8.35	6.54
MAX						30	33	30	32	10	12	
MIN						23	15	12	8.7	5.5	5.1	
AC-FT							1,580	1,260	918	758	514	389

e Estimated.

# 09033300 FRASER RIVER BELOW CROOKED CREEK AT TABERNASH, CO

LOCATION.--Lat 40°00'21", long 105°50'52", in  $SE^{1}_{4}NE^{1}_{4}$  sec.36, T.1 N., R.76 W., Grand County, Hydrologic Unit 14010001, on left bank 600 ft downstream from Crooked Creek, and 1 mi north of Tabernash.

DRAINAGE AREA.--224 mi<sup>2</sup>.

PERIOD OF RECORD.—October 1998 to September 2002. October 2002 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09033300

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 8,270 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversions upstream from station to Moffat water tunnel, amount unknown.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1550 ft<sup>3</sup>/s, May 30, 2003, gage height, 6.01 ft; minimum daily, 16 ft<sup>3</sup>/s, August 28, 2002.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 203 ft<sup>3</sup>/s, June 30, gage height, 3.40 ft; minimum daily, 25 ft<sup>3</sup>/s, Sept. 19.

# DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							82	61	40	102	38	39
2							87	e60	35	44	39	38
3							98	e58	35	36	44	38
4							85	64	35	34	41	40
5							90	71	34	36	40	50
6							103	75	33	45	42	47
7							101	61	31	37	38	43
8							96	60	31	34	37	42
9							97	59	34	31	35	40
10							82	62	32	32	33	39
11							72	65	30	31	32	41
12							72	75	33	30	35	39
13							71	80	33	30	33	38
14							71	72	31	30	33	36
15							71	65	30	34	32	36
16							75	59	33	38	32	31
17							82	54	38	43	36	26
18							88	51	44	37	53	26
19							71	52	51	35	90	25
20							69	52	42	37	65	29
21							68	50	44	37	50	30
22							66	51	50	39	60	36
23							60	48	37	44	61	34
24							55	46	33	52	46	33
25							57	47	34	44	42	34
26							54	46	46	42	40	31
27							55	40	45	42	42	30
28							62	41	47	42	42	31
29							63	45	38	41	42	30
30							68	55	99	38	39	55
31								45		38	39	
TOTAL							2,271	1,770	1,178	1,235	1,331	1,087
MEAN							75.7	57.1	39.3	39.8	42.9	36.2
MAX							103	80	99	102	90	55
MIN							54	40	30	30	32	25
AC-FT							4,500	3,510	2,340	2,450	2,640	2,160

e Estimated.

# 09034250 COLORADO RIVER AT WINDY GAP NEAR GRANBY, CO

 $LOCATION. -- Lat\ 40^{\circ}06'30", long\ 106^{\circ}00'13" \ in\ NW^{1}\!\!/_{4}\ sec.\ 27,\ T.2\ N.,\ R.77\ W.,\ Grand\ County,\ Hydrologic\ Unit\ 14010001,\ on\ right\ bank\ 300\ ft\ downstream\ from\ county\ highway\ bridge,\ 1.1\ mi\ downstream\ from\ Windy\ Gap\ diversion\ dam,\ 2.4\ mi\ downstream\ from\ mouth\ of\ Fraser\ River,\ and\ 3.8\ mi\ northwest\ of\ Granby.$ 

DRAINAGE AREA.--789 mi<sup>2</sup>.

 $PERIOD\ OF\ RECORD. -- October\ 1981\ to\ current\ year.\ For\ a\ complete\ listing\ of\ historical\ data\ available\ for\ this\ site,\ see\ http://waterdata.usgs.gov/co/nwis/inventory/\\ ?site\_no=09034250$ 

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,790 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, and diversions for irrigation.

					YEAR OC		ET PER SECO TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	102	102	e76	e76	e79	181	182	158	385	158	87
2	105	101	97	e75	e63	e74	168	184	140	313	151	79
3	85	117	77	e75	e70	e79	179	180	138	273	148	77
4	85	130	93	e75	e70	e79	176	164	146	248	145	79
5	80	131	83	e69	e75	e79	168	125	142	246	134	92
6	84	122	94	e68	e73	e80	183	134	128	276	132	97
7	82	122	90	e76	e71	e81	194	153	171	246	147	87
8	79	120	97	e73	e71	e76	187	152	170	226	153	83
9	67	108	e85	e73	e72	e86	187	156	199	203	145	78
10	63	126	e79	e73	e73	e89	182	164	190	203	117	76
11	79	131	e89	e76	e73	e90	160	166	167	193	92	76
12	84	122	e84	e65	e71	e100	152	168	185	178	88	74
13	85	118	e86	e70	e74	e105	152	181	214	155	87	71
14	82	135	e86	e70	e71	e105	149	177	216	158	80	68
15	94	137	e86	e66	e71	e105	151	165	207	181	74	65
16	94	124	e80	e69	e71	e95	154	149	193	228	70	58
17	91	120	e81	e71	e71	e90	160	126	239	301	70	55
18	88	123	e78	e70	e72	e91	168	125	276	309	75	53
19	88	104	e72	e61	e75	e117	159	124	326	318	148	53
20	91	106	e70	e73	e76	e160	149	124	300	309	171	48
21	93	113	e71	e67	e77	e172	145	116	293	297	130	48
22	91	110	e74	e70	e77	e148	143	111	305	267	108	69
23	91	80	e72	e66	e82	e116	136	110	282	253	121	68
24	88	78	e68	e64	e75	e115	131	102	254	266	113	63
25	88	106	e69	e64	e77	e150	126	104	244	267	98	61
26 27 28 29 30 31	88 77 85 93 89 106	110 e103 e80 e106 91	e73 e74 e68 e68 e68 e76	e67 e66 e67 e70 e73 e71	e80 e79 e81 e81	e200 244 173 152 153 163	125 119 118 123 131	106 112 113 130 188 181	288 287 296 267 266	255 254 251 225 190 174	94 99 103 99 96 90	61 57 51 50 73
TOTAL	2,671	3,376	2,490	2,169	2,148	3,646	4,656	4,472	6,687	7,648	3,536	2,057
MEAN	86.2	113	80.3	70.0	74.1	118	155	144	223	247	114	68.6
MAX	106	137	102	76	82	244	194	188	326	385	171	97
MIN	63	78	68	61	63	74	118	102	128	155	70	48
AC-FT	5,300	6,700	4,940	4,300	4,260	7,230	9,240	8,870	13,260	15,170	7,010	4,080
MEAN	109	102	80.0	77.5	77.7	112	282	611	862	493	175	111
MAX	341	188	120	110	110	260	881	2,326	2,997	2,096	509	384
(WY)	(2000)	(1986)	(1985)	(1985)	(1985)	(1984)	(1996)	(1984)	(1984)	(1983)	(1997)	(1999)
MIN	59.9	73.8	63.8	59.0	63.3	75.8	120	123	180	120	74.3	54.4
(WY)	(1982)	(2002)	(2003)	(1989)	(2003)	(1983)	(2002)	(2001)	(2001)	(2002)	(2002)	(2002)
SUMMAI	RY STATIST	TICS		FOR 2003 CA	ALENDAR	YEAR	FOR 200	)4 WATER Y	EAR	WATER	YEARS 198	82 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS		Л	58,434 160 1,780 e57 e59 115,900 319 102 63	May Jan Jan	7	33 2 42 90,3 22 10	35 Ju 48 Sep 54 Sep 22 Ju 3.59 Ju	1 1 2 20 5 15 1 1 1 1	5,2 187,0	29 A 40 S 260 M 7.34 M	1984 2002 ay 25, 1984 ug 27, 2002 ep 3, 2002 ay 25, 1984 ay 25, 1984	

e Estimated.

# 09034900 BOBTAIL CREEK NEAR JONES PASS, CO

LOCATION.--Lat 39°45'37", long 105°54'21", in sec.28, T.3 S., R.76 W., Grand County, Hydrologic Unit 14010001, on left bank 320 ft upstream from diversion dam and 0.4 mi south of entrance to August P. Gumlick Tunnel.

DRAINAGE AREA.--5.49 mi<sup>2</sup>.

 $PERIOD \ OF \ RECORD. --October \ 1965 \ to \ current \ year. \ For a \ complete \ listing \ of \ historical \ data \ available \ for this \ site, see \ http://waterdata.usgs.gov/co/nwis/inventory/\\ ?site\_no=09034900$ 

GAGE.--Water-stage recorder. Elevation of gage is 10,430 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. No diversion upstream from station.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	3.9 4.6 4.4 4.0 3.8	e2.0 e2.0 e2.0 e1.7 e1.9	e1.8 e1.8 e1.8 e1.8	e1.5 e1.5 e1.4 e1.4	e1.1 e1.0 e1.0 e1.0	e0.70 e0.70 e0.72 e0.72 e0.72	e1.7 e1.8 e1.9 e2.3 e2.7	e4.5 e3.9 e5.8 7.5	19 22 28 32 36	31 28 25 23 20	7.4 7.5 7.3 7.3 6.8	3.9 3.6 3.4 4.1 4.5	
6 7 8 9 10	3.6 3.5 3.4 3.2 3.2	e2.0 e2.0 e2.0 e2.0 e2.0	e1.8 e1.7 e1.7 e1.7 e1.7	e1.4 e1.4 e1.3 e1.3	e1.0 e1.0 e0.98 e0.98 e0.98	e0.72 e0.72 e0.72 e0.72 e0.72	e2.8 e3.1 e3.3 e3.4 e3.1	17 20 19 20 23	41 45 44 48 43	19 18 17 16 16	6.4 6.2 5.3 5.3 4.9	4.2 3.3 2.8 2.7 2.8	
11 12 13 14 15	e3.1 e3.0 2.9 e2.9 e2.9	e2.0 e2.0 e2.0 e2.0 e1.9	e1.7 e1.7 e1.7 e1.6 e1.6	e1.3 e1.2 e1.2 e1.2 e1.2	e0.98 e0.98 e0.98 e0.85 e0.92	e0.72 e0.72 e0.74 e0.74 e0.78	e3.1 e2.9 e2.8 e2.7 e3.0	23 18 15 12	35 30 29 31 30	15 14 14 14 16	4.8 4.3 4.3 3.7 3.6	2.9 2.5 2.5 2.3 2.4	
16 17 18 19 20	2.8 e2.8 2.7 e2.7 2.5	e1.7 e1.6 e1.8 e2.0 e2.1	e1.6 e1.6 e1.6 e1.6 e1.6	e1.2 e1.2 e1.2 e1.2 e1.1	e0.92 e0.92 e0.90 e0.90 e0.83	e0.83 e0.85 e0.87 e0.92 e1.0	e3.0 e3.5 e3.6 e3.6 e3.6	13 13 17 26 31	30 29 28 26 24	17 20 18 17	3.7 3.4 3.9 5.6 5.8	2.3 2.3 2.2 2.5 2.4	
21 22 23 24 25	2.4 2.3 2.3 e2.1 e1.8	e1.9 e1.6 e1.2 e1.2 e1.6	e1.6 e1.5 e1.5 e1.5 e1.5	e1.1 e1.1 e1.1 e1.1	e0.81 e0.81 e0.81 e0.81	e1.1 e1.2 e1.4 e1.5 e1.8	e3.5 e3.3 e3.0 e2.9 e2.7	31 27 27 27 27 25	25 22 20 19	16 14 15 14 12	5.8 6.3 6.1 5.6 5.4	3.0 3.0 2.9 3.3 3.7	
26 27 28 29 30 31	e1.6 e1.7 e2.0 e2.0 e2.0 e2.0	e1.9 e2.2 e2.1 e2.1 e1.9	e1.5 e1.5 e1.5 e1.5 e1.5 e1.5	e1.1 e1.1 e1.1 e1.1 e1.1	e0.81 e0.66 e0.72 e0.70	e2.3 e2.3 e1.9 e1.5 e1.4 e1.6	e2.7 e2.7 e3.3 e3.5 e4.1	25 25 30 28 21 20	21 24 27 28 35	11 10 10 9.0 8.8 8.1	5.2 5.7 5.7 4.9 4.5 4.1	3.7 3.4 3.3 3.4 3.7	
TOTAL MEAN MAX MIN AC-FT	88.1 2.84 4.6 1.6 175	56.4 1.88 2.2 1.2 112	50.5 1.63 1.8 1.5 100	38.1 1.23 1.5 1.1 76	26.26 0.91 1.1 0.66 52	33.33 1.08 2.3 0.70 66	89.6 2.99 4.1 1.7 178	596.7 19.2 31 3.9 1,180	890 29.7 48 19 1,770	502.9 16.2 31 8.1 998	166.8 5.38 7.5 3.4 331	93.0 3.10 4.5 2.2 184	
STATIST: MEAN	ICS OF MON 2.97	THLY MEA		OR WATER Y 0.89	7EARS 1966 0.80	- 2004, BY W 0.79	VATER YEAI 1.52		55 7	29.0	0.22	1 67	
MAX (WY) MIN (WY)	5.49 (1985) 1.51 (1981)	3.33 (1984) 1.03 (1974)	1.11 1.79 (1983) 0.78 (1977)	1.24 (1983) 0.58 (1972)	1.15 (1995) 0.48 (1972)	1.21 (1995) 0.52 (1972)	4.30 (1969) 0.68 (1973)	15.6 32.6 (2000) 1.57 (1995)	55.7 85.8 (1997) 20.1 (2002)	75.5 (1995) 4.74 (2002)	9.33 25.5 (1983) 3.39 (2002)	4.67 9.74 (1983) 2.35 (1987)	
SUMMAF	RY STATIST	ICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 19	066 - 2004	
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAYIMIUM PEAK ELOW			4,753.69 13.0 127 May 31 e0.61 Jan 28 e0.75 Mar 25			2,631.69 7.19 48 Jun 9 e0.66 Feb 27 e0.70 Feb 27 65 Jun 7			10.3 15.5 4.80 2002 146 Jun 25, 1983 0.44 Feb 11, 1972 0.46 Feb 11, 1972 290 Jun 28, 1988				
MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS							5,22	3.99 Jun	7			Jun 28, 1988	

e Estimated.

a Maximum gage height, 7.57 ft, May 15, 1984, backwater from ice.

214 WILLIAMS FORK BASIN

# 09035500 WILLIAMS FORK BELOW STEELMAN CREEK, CO

LOCATION .-- Lat 39°46'44", long 105°55'40", in sec. 20, T.3 S., R.76 W., Grand County, Hydrologic Unit 14010001, on right bank 700 ft downstream from Steelman Creek and 6.5 mi southeast of Leal.

DRAINAGE AREA.--16.3 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1933 to September 1941, published as Williams River below Steelman Creek. October 1965 to current year. Monthly discharge only for some periods, published in WSP 1313. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09035500

GAGE.--Water-stage recorder. Elevation of gage is 9,800 ft above NGVD of 1929, from topographic map. Prior to July 21, 1933, nonrecording gage, and July 21, 1933 to Sept. 30, 1941, water-stage recorder at site 600 ft upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversions upstream from station through August P. Gumlick Tunnel (station 09035000) since May 10, 1940.

					DISCHARGE ER YEAR OC DAI		TO SEPTEM						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	8.9 1.4 1.2 1.1 1.1	e0.71 e0.74 e0.83 e0.69 e0.94	e1.1 e1.2 e1.2 e1.2 e1.2	e1.3 e1.5 e1.4 e1.4 e1.4	e1.1 e1.1 e1.1 e1.1 e1.0	e0.75 e0.75 e0.75 e0.73 e0.73	e1.2 e1.3 e1.4 e1.8 e1.5	e2.9 e2.6 e4.0 5.2 6.6	20 4.2 3.9 3.8 3.7	25 57 53 49 47	1.2 1.2 1.2 1.1 1.1	0.58 0.57 0.56 0.68 0.93	
6 7 8 9 10	1.6 1.4 1.0 1.0 0.99	e1.1 e1.2 e1.2 e1.2 e0.98	e1.2 e1.2 e1.5 e1.1 e1.1	e1.4 e1.1 e1.3 e1.3 e1.3	e0.73 e0.73 e0.73 e0.73 e1.0	e0.73 e0.73 e0.73 e0.47 e0.47	e1.6 e1.9 e1.9 e2.0 e1.7	7.6 8.2 8.3 8.1 31	3.7 39 4.1 4.1 3.9	44 41 39 37 35	1.1 0.98 0.93 0.87 0.83	0.84 0.72 0.63 0.62 0.74	
11 12 13 14 15	1.2 0.97 0.96 1.0 0.95	e0.99 e0.99 e0.99 e0.99 e0.92	e1.1 e1.1 e1.1 e1.1	e1.3 e1.3 e1.3 e1.3 e1.3	e0.98 e0.99 e0.99 e0.89 e0.91	e0.47 e0.47 e0.47 e0.47 e1.6	e1.7 e2.1 e2.1 e2.0 e2.2	8.1 6.7 23 5.3 4.8	4.0 3.9 3.7 27 17	34 26 8.5 2.1 2.0	0.81 0.80 0.77 0.74 0.72	0.91 0.70 0.65 0.60 0.57	
16 17 18 19 20	0.89 0.86 0.84 0.83 0.80	e0.85 e0.80 e0.87 e0.99 e1.1	e1.0 e1.0 e1.0 e1.0 e1.0	e1.3 e1.2 e1.2 e1.2 e1.1	e0.92 e2.1 e2.6 e2.6 e2.6	e1.6 e1.7 e1.4 e1.3 e1.3	e1.7 e1.5 e1.8 e2.1 e2.1	5.1 12 6.0 6.7 7.0	17 16 16 3.0 2.8	2.0 2.3 2.2 14 2.2	0.71 0.72 0.78 1.1 1.1	0.58 0.57 0.55 0.61 0.68	
21 22 23 24 25	0.78 0.78 0.77 0.74 0.80	e1.0 e0.87 e0.45 e0.57 e0.77	e1.0 e1.0 e1.0 e1.4 e1.0	e1.1 e1.1 e1.1 e1.1	e2.6 e2.6 e1.7 e0.84 e0.84	e1.3 e0.90 e0.87 e0.97 e1.3	e2.4 e2.3 e2.3 e2.1 e2.2	6.7 6.1 5.7 22 5.1	17 14 12 11 11	1.9 1.7 1.9 1.9	0.89 0.86 0.82 0.76 0.70	0.88 0.93 2.6 3.3 1.1	
26 27 28 29 30 31	0.91 0.78 0.78 0.76 0.72 0.76	e0.91 e0.87 e1.2 e1.2 e1.1	e1.4 e1.4 e1.3 e1.3 e1.3 e1.3	e1.1 e1.1 e1.1 e1.1 e1.1	e0.84 e0.73 e0.74 e0.75	e1.5 e1.6 e1.2 e0.77 e0.73 e0.64	e2.0 e2.0 e2.2 e2.0 e2.5	4.9 4.7 4.8 5.1 4.8 4.7	2.9 3.2 23 9.6 16	1.5 1.4 1.5 1.4 1.3 1.2	0.66 0.73 0.80 0.70 0.63 0.61	0.96 0.86 0.83 0.86 4.5	
TOTAL MEAN MAX MIN AC-FT a	37.57 1.21 8.9 0.72 75 549	28.02 0.93 1.2 0.45 56 329	35.9 1.16 1.5 1.0 71 230	38.0 1.23 1.5 1.1 75 127	36.54 1.26 2.6 0.73 72 97	29.40 0.95 1.7 0.47 58 174	57.6 1.92 2.5 1.2 114 355	243.8 7.86 31 2.6 484 3,047	320.5 10.7 39 2.8 636 4,155	539.6 17.4 57 1.2 1,070 1,083	26.92 0.87 1.2 0.61 53 793	30.11 1.00 4.5 0.55 60 510	
STATIST	ICS OF MO	NTHLY MEA	AN DATA FO	OR WATER Y	YEARS 1934	- 2004, BY V	VATER YEAR	R (WY)					
MEAN MAX (WY) MIN (WY)	5.28 16.3 (1985) 0.98 (1967)	3.45 8.07 (1938) 0.58 (1987)	2.41 4.85 (1996) 0.39 (1987)	2.03 4.30 (1939) 0.31 (1978)	1.94 4.02 (1999) 0.30 (1978)	2.00 4.99 (1999) 0.35 (1987)	3.76 10.6 (1992) 0.61 (1973)	32.4 89.2 (1936) 5.45 (1991)	114 213 (1938) 5.83 (2002)	54.9 200 (1995) 1.07 (2002)	11.4 44.5 (1983) 0.67 (2002)	6.71 18.4 (1984) 0.68 (2002)	
SUMMAF	RY STATIST	TICS		FOR 2003 (	CALENDAR	YEAR	FOR 200	)4 WATER Y	/EAR	WATER	YEARS 19	934 - 2004	
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT)			M	8,640.46 23.7 333 Jun 1 e0.35 Jan 28 e0.41 Jan 24			b1,423,96 b3.89  57 Jul 2 e0.45 Nov 23 e0.51 Mar 8 133 Jun 7 4.43 Jun 7 b2,820			c26.3 39.0 2.41 2002 395 0.20 Mar 6, 1967 0.27 Feb 13, 1971 d516 Jul 11, 1995 f5.64 Jul 11, 1995 c19.050			
ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS				17,140 120 1.3				8.1 1.2			65 3.4		

0.73

0.60

90 PERCENT EXCEEDS

0.54

e Estimated.

Diversions in acre-feet, through August P. Gumlick Tunnel, provided by Denver Water Board.

Does not include diversions through August P. Gumlick Tunnel.

Includes diversions to August P. Gumlick Tunnel. From rating curve extended above 250 ft<sup>3</sup>/s.

Maximum gage height, 6.96 ft, May 15, 1984, backwater from ice.

# 09035700 WILLIAMS FORK ABOVE DARLING CREEK, NEAR LEAL, CO

 $LOCATION.--Lat~39^{\circ}47'50", long~106^{\circ}01'32", in~NW^{1}/_{4}NW^{1}/_{4}~sec.16, T.3~S., R.77~W., Grand~County, Hydrologic~Unit~14010001, on left bank~0.3~mi~upstream~from~Darling~Creek, and~1.4~mi~southeast~of~Leal.$ 

DRAINAGE AREA.--35.0 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1965 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=09035700

REVISED RECORDS.--WDR CO-93-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,940 ft above NGVD of 1929, from topographic map. Prior to Oct. 1, 1972, and May 6, 1981 to Jan. 31, 1983, at site 300 ft upstream at different datum. Feb. 1, 1983 to Oct. 19, 1992, and Oct. 1, 1972 to May 5, 1981, at site 0.6 mi upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversion upstream from station through August P. Gumlick Tunnel

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	20 14 12 10 11	8.1 8.2 e8.8 e7.9 e9.2	7.4 e7.4 e7.6 e7.3 e7.1	6.7 6.8 6.3 6.9 6.4	4.9 4.7 4.7 4.7 4.6	4.5 4.3 4.2 4.1 4.0	13 14 14 13 14	19 17 21 27 32	57 41 43 48 52	50 92 85 79 76	14 14 14 13 13	7.2 6.6 6.2 7.5	
6 7 8 9 10	10 11 10 9.6 9.5	e8.8 e9.2 8.8 e8.8 8.7	e7.4 e7.4 e7.5 e7.4	6.5 6.5 6.4 6.2 6.0	4.5 4.4 4.5 4.4 4.3	3.9 4.0 4.2 4.7 4.9	16 16 16 16 14	41 44 45 45 68	57 100 69 77 69	72 67 64 60 58	13 12 11 9.9 9.5	11 9.4 8.1 7.6 7.6	
11 12 13 14 15	9.6 9.2 8.3 8.9	e8.8 e8.8 8.2 8.5 8.2	e7.9 e7.7 e7.7 e7.7 e7.7	5.9 5.7 6.3 5.9 5.8	4.3 4.1 4.1 3.9 3.9	4.9 e5.1 e5.2 e5.2 5.2	13 13 13 14 15	50 44 52 33 30	61 54 52 74 63	54 50 28 21 21	9.0 8.8 8.8 7.9 8.0	8.6 7.8 7.5 7.3 6.8	
16 17 18 19 20	8.9 8.9 8.9 8.6 8.4	e8.8 e8.2 e8.2 e8.4 e8.5	e7.7 e7.9 7.8 7.7 7.9	5.9 5.8 5.8 5.5 5.8	3.9 4.0 e5.2 e5.5 e5.7	e5.9 e6.1 e6.5 e7.8 e8.6	16 19 20 17 17	30 40 36 45 55	62 61 61 43 39	21 22 22 22 31 25	7.6 8.5 9.9 15 16	6.6 5.7 5.0 5.7 7.5	
21 22 23 24 25	8.5 8.6 8.5 8.1 7.0	e8.4 e7.7 e5.9 e7.2 e7.9	8.0 7.9 7.5 7.4 7.5	5.8 5.5 5.4 5.5 5.4	e6.0 e6.1 e6.4 e6.4 5.1	e9.8 e12 12 12 12	16 15 14 13 14	59 56 51 70 49	57 53 45 42 42	21 18 19 22 18	12 11 11 9.6 8.7	9.8 11 10 14 12	
26 27 28 29 30 31	e8.3 8.3 8.1 8.1 8.0 7.8	e7.7 e7.6 e7.5 e7.6 7.8	7.5 7.3 7.2 6.9 7.2 7.1	5.5 5.3 5.4 5.5 5.6 e5.3	4.8 4.7 5.0 4.6	13 12 11 e11 e12 e12	13 16 18 19 21	46 47 51 56 49 45	38 36 58 44 58	17 17 18 17 16 15	8.3 8.6 9.6 8.4 7.7 7.5	11 9.9 9.6 9.4 16	
TOTAL MEAN MAX MIN AC-FT	297.1 9.58 20 7.0 589	246.4 8.21 9.2 5.9 489	233.1 7.52 8.0 6.9 462	183.3 5.91 6.9 5.3 364	139.4 4.81 6.4 3.9 276	232.1 7.49 13 3.9 460	462 15.4 21 13 916	1,353 43.6 70 17 2,680	1,656 55.2 100 36 3,280	1,196 38.6 92 15 2,370	325.3 10.5 16 7.5 645	263.4 8.78 16 5.0 522	
				OR WATER Y				` /	100	100	26.2	15.7	
MEAN MAX (WY) MIN (WY)	12.1 33.5 (1996) 6.20 (1980)	9.50 20.6 (1998) 4.90 (1990)	8.00 15.5 (1996) 3.87 (1975)	6.66 13.4 (1996) 3.43 (1975)	6.05 13.6 (1996) 3.47 (1975)	6.56 17.9 (1996) 3.21 (1980)	11.8 26.0 (1996) 5.29 (1973)	63.5 155 (1996) 21.3 (1975)	199 378 (1997) 29.5 (2002)	100 320 (1995) 9.27 (2002)	26.3 75.5 (1983) 4.89 (2002)	15.7 40.9 (1984) 5.70 (2002)	
SUMMAR	RY STATIST	TICS		FOR 2003 C	ALENDAR	YEAR	FOR 200	)4 WATER Y	EAR	WATER	YEARS 19	66 - 2004	
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE 50 PERCE	MEAN ANNUAL MANNUAL MANNUAL ME DAILY ME DAILY ME	MEAN AN AN Y MINIMUM OW CAGE AC-FT) DS DS	М	443 e3 e4 34,250 215	7.3 3 Jun 3.9 Jan 4.0 Feb		10 20 13,07	00 Jun 3.9 Fet 4.0 Fet 03 Jun 6.62 Jun		28,0	2.7 A 2.8 N 751 J a6.94 J	1984 2002 Jul 12, 1995 Apr 5, 1977 far 31, 1977 Jun 17, 1995 Jun 17, 1995	

e Estimated. a Maximum gage height, 8.20 ft, May 31, 2003, present site and datum.

# 09035800 DARLING CREEK NEAR LEAL, CO

 $LOCATION.--Lat~39^{\circ}48'02", long~106^{\circ}01'33", in~SW^{1}/_{4}SW^{1}/_{4}~sec.9,~T.3~S.,~R.77~W.,~Grand~County,~Hydrologic~Unit~14010001,~on~left~bank~700~ft~upstream~from~mouth,~and~1.2~mi~southeast~of~Leal.$ 

DRAINAGE AREA.--8.76 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1965 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=09035800

 $GAGE.--Water-stage\ recorder.\ Elevation\ of\ gage\ is\ 8,940\ ft\ above\ NGVD\ of\ 1929, from\ topographic\ map.\ Prior\ to\ Aug.\ 23,\ 1996,\ at\ site\ 2,400\ ft\ upstream\ at\ different\ datum.$ REMARKS.--Records good except for estimated daily discharges, which are poor. No diversion upstream from station.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	5.4 5.6 5.6 5.4 5.3	3.7 3.8 3.9 e3.5 e3.2	e3.3 e3.4 e3.4 e3.3	e2.9 e2.9 e2.8 e3.0 e2.8	e2.4 e2.4 e2.4 e2.4 e2.4	e2.6 e2.5 e2.8 e2.8 e3.0	3.3 3.7 3.6 3.4 3.4	5.4 5.3 6.2 8.2	15 15 16 17 18	15 13 12 12 12	6.0 6.0 5.8 5.4 5.5	3.1 3.0 2.9 3.7 4.3	
6 7 8 9 10	5.2 5.1 4.9 4.8 5.0	e3.4 e3.5 e3.4 e3.3	e3.3 e3.4 e3.4 e3.3	e3.0 e2.8 e2.8 e2.5 e2.5	e2.4 e2.3 e2.5 e2.5 e2.3	e3.0 e3.0 e2.9 e3.1 e3.3	3.7 3.7 3.6 3.7 3.6	13 14 16 16 17	20 23 22 23 24	9.7 9.1 8.5 8.0	5.3 5.1 4.7 4.5 4.3	4.2 3.7 3.3 3.1 3.3	
11 12 13 14 15	5.6 5.0 5.0 4.6 4.7	e3.2 e3.2 e3.3 e3.3 e3.3	e3.4 e3.3 e3.4 e3.4	e2.5 e2.5 e2.5 e2.5 e2.5	e2.4 e2.2 e2.3 e2.7 e2.7	e3.2 e3.3 e3.4 e3.4 e3.5	3.4 3.3 3.3 3.3 3.5	18 16 14 13 12	22 21 20 20 20	7.7 7.4 7.1 7.4 10	4.2 4.1 3.9 3.7 3.7	3.5 3.0 2.9 2.8 2.8	
16 17 18 19 20	4.6 4.6 4.5 4.4 4.2	e3.2 e3.2 e3.2 e3.2 e3.4	e3.3 e3.2 e3.1 e3.0 e2.9	e2.5 e2.5 e2.4 e2.4 e2.4	e2.7 e2.7 e2.8 e2.9 e3.0	e3.5 e3.4 e3.6 e3.7 e3.9	3.9 4.8 5.2 4.8 4.5	12 12 13 15 17	19 18 18 18 17	9.0 10 9.6 10 11	3.6 3.8 5.4 8.2 6.3	2.6 2.6 2.6 2.7 2.8	
21 22 23 24 25	4.2 4.1 4.1 3.9 e3.5	e3.3 e3.2 e3.0 e3.2 e3.4	e2.8 e2.9 e2.8 e2.9 e2.9	e2.4 e2.4 e2.4 e2.4 e2.4	e3.1 e3.2 e3.3 e3.1	e4.0 e4.1 e4.2 e4.3 e4.4	4.4 4.2 3.8 4.0 3.7	19 18 18 17 16	17 17 15 15 14	9.6 8.7 10 9.8 8.2	4.9 4.5 4.3 3.9 3.7	3.2 3.3 3.2 3.3 3.3	
26 27 28 29 30 31	e3.9 4.1 4.0 3.9 3.7 3.6	e3.3 e3.2 e3.3 e3.4	e2.9 e2.8 e2.7 e2.7 e2.9 e3.0	e2.4 e2.4 e2.4 e2.4 e2.4 e2.4	e2.7 e3.0 e2.8 e2.7	e4.5 e3.9 e3.0 e3.2 e3.5 e3.6	3.9 4.7 5.2 5.6 6.1	16 17 18 18 17	15 14 14 14 16	7.7 7.5 8.0 7.0 6.6 6.3	3.6 3.9 4.0 3.5 3.3 3.2	3.4 3.3 3.3 3.4 3.8	
TOTAL MEAN MAX MIN AC-FT	142.5 4.60 5.6 3.5 283	100.1 3.34 3.9 3.0 199	97.1 3.13 3.4 2.7 193	79.1 2.55 3.0 2.4 157	77.4 2.67 3.3 2.2 154	106.6 3.44 4.5 2.5 211	121.3 4.04 6.1 3.3 241	444.1 14.3 19 5.3 881	537 17.9 24 14 1,070	288.9 9.32 15 6.3 573	142.3 4.59 8.2 3.2 282	96.4 3.21 4.3 2.6 191	
							VATER YEAI	, ,	46.0	20.9	7.12	4.64	
MEAN MAX (WY) MIN (WY)	4.02 7.86 (1985) 2.55 (1979)	3.11 5.52 (1985) 1.82 (1976)	2.57 4.33 (1985) 1.38 (1976)	2.19 3.00 (1985) 1.20 (1976)	2.02 3.07 (1998) 1.21 (1975)	2.05 3.44 (2004) 1.10 (1975)	2.92 6.03 (1985) 1.49 (1975)	15.4 31.2 (2000) 4.39 (1983)	46.0 85.1 (1984) 12.3 (2002)	20.8 91.6 (1983) 4.15 (2002)	7.13 20.2 (1983) 2.22 (2002)	4.64 9.64 (1984) 2.12 (2002)	
SUMMAI	RY STATIST	ICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 19	56 - 2004	
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE 50 PERCE	MEAN ANNUAL M ANNUAL M DAILY ME DAILY ME	IEAN AN AN Y MINIMUN OW 'AGE AC-FT) DS DS	Л	7,670 33	O.6 O May 1.3 Jan 1.5 Jan	26	4,43	e2.2 Fel e2.4 Fel 29 Jui 4.52 Jui	n 10 b 12 b 7 n 7	a	1.0 J 1.1 F 241 J	1983 2002 un 25, 1983 an 12, 1975 eb 24, 1975 un 30, 1984 un 30, 1984	

e Estimated.

a From rating curve extended above 100 ft<sup>3</sup>/s.
b Maximum gage height, 5.44 ft, Jun 19, 1997, present site and datum.

12

6.8

#### 09035900 SOUTH FORK WILLIAMS FORK NEAR LEAL, CO

LOCATION.--Lat 39°47'45", long 106°01'48", in NE $^1$ /<sub>4</sub> sec.17, T.3 S., R.77 W., Grand County, Hydrologic Unit 14010001, on left bank 800 ft upstream from county road bridge, 0.6 mi upstream from mouth, and 1.2 mi southeast of Leal.

DRAINAGE AREA.--27.3 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1965 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site no=09035900

GAGE.--Water-stage recorder. Elevation of gage is 8,950 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. No diversion upstream from station.

#### DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES NOV JUL SEP DAY OCT DEC JAN FEB APR MAY IUN AUG MAR 12 16 e11 e7.8 e8.0 e16 22 60 19 9.9 e9.2 e7.7 e7.6 17 23 60 53 18 11 e10 3 19 11 e11 e9.2 e7.7 e8.1 16 26 68 49 18 11 31 e9.3 e7.7 46 17 e10 e10 e8.1 16 77 17 12 5 44 44 14 e9.5 e8.7 86 16 e10 e7.7 e8.1 17 17 6 15 e10 e10 e9.1 e8.0 e8.1 18 59 100 42 17 14 e7.5 e7.8 e8.2 e8.1 41 39 e10 e10 e9.1 18 63 116 17 13 12 8 e8.9 14 e10 e10 18 65 120 16 14 e9.7 e10 e8.8 e7.8 e8.5 18 64 36 15 12 34 15 10 14 e9.7 e10 e8.8 e7.6 e8.8 16 68 120 11 71 103 32 12 11 14 e9 6 e10 e8.7 e7.8 16 14 e8.5 30 12 13 e9.9 e10 e8.6 e7.4 e8.8 17 61 93 14 11 e10 e8.6 e7.5 e8.9 49 88 14 13 13 e10 16 11 e8.9 42 28 e10 e10 e8.4 29 15 13 e9.9 e10 e8.3 e7.7 e9.2 18 39 90 13 11 16 12 e9.7 e10 e8.2 e7.7 e9.2 19 40 87 33 13 11 12 e8.2 e9.2 22 35 17 e9.9 e9.8 e7.7 42 84 14 18 11 e9.7 e9.7 e8.1 e7.7 e9.5 23 45 81 33 14 10 e9.7 e7.7 19 11 e9.8 e8.1 e9921 59 75 29 19 10 72 28 20 72 19 20 11 e11 e9.5 e8.0 e7.8 e11 11 21 11 e10 e9.4 e8.0 e7.9 19 78 75 27 16 13 e11 22 23 e10 e9.4 e8.2 e8.2 e7.9 e12 18 76 71 69 25 27 10 e9 3 13 10 e9 3 e8.0e13 18 60 15 24 30 70 e9.7 e9.6 e8.1 e15 17 56 13 10 e8.1 14 25 e8.2 92 e11 e9.4 e8.0 e17 17 68 56 25 13 14 26 27 23 e11 e10 e9.4 e8.0e7.8 e18 18 67 60 13 14 22 21 e10 e10 e9.4 e8.0 e7.9 e17 68 57 13 13 23 22 28 e9.2 e7.9 73 58 10 e10 e8.0 e13 13 13 23 78 21 9.9 e9.1 e8.0 e7.9 e14 12 13 e10 25 68 20 e11 e8.0 e14 69 16 31 9.8 e9.3 e8.0 --e15 61 20 12 TOTAL 389.9 300.3 303.4 262.2 225.4 333.7 558 1,763 2,411 1,012 465 365 8.46 9.79 7.77 56.9 15.0 12.2 MEAN 12.6 10.0 10.8 18.6 80.4 32.6 MAX 19 11 11 9.3 8.1 18 25 78 127 60 19 16 MIN 9.2 93 9 1 8.0 7.4 7.6 16 22 55 20 12 10 773 596 602 520 447 4,780 2,010 AC-FT 662 1.110 3.500 922 724 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2004, BY WATER YEAR (WY) MEAN 10.9 9.27 153 69.7 13.4 7.82 7.41 7.54 11.8 58.7 25.6 16.5 24.0 16.7 21.1 12.8 11.4 11.5 25.0 243 215 63.3 32.3 MAX 118 (WY) (1985)(1998)(1986)(1998)(1996)(1996)(1971)(1996)(1984)(1983)(1983)(1984)MIN 8.70 3.71 3.46 2.95 2.90 3.194.47 18.4 44.313.6 9.58 8.78 (1967)(1967)(1967)(1967)(1967)(1995)(WY) (2003)(1967)(2002)(2002)(2002)(2002)SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1966 - 2004 13,325.3 8,388.9 ANNUAL TOTAL 22.9 32.6 ANNUAL MEAN 36.5 HIGHEST ANNUAL MEAN 54.8 1984 LOWEST ANNUAL MEAN 14.9 2002 HIGHEST DAILY MEAN 321 Jun 127 Jun 9 404 Jun 17, 1995 LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM e7.4 e7.6 Feb 12 Feb 7 2.6 2.8 Mar 6, 1967 Feb 28, 1967 e6.4 Jan e6.6 Jan MAXIMUM PEAK FLOW 157 a574 Jun 17, 1995 Jun MAXIMUM PEAK STAGE 3.22 b4.17 Jun 17, 1995 Jun 26,430 ANNUAL RUNOFF (AC-FT) 16,640 23,650 10 PERCENT EXCEEDS 93 138 63

13

8.0

50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

12

7.3

Estimated.

a From rating curve extended above 256 ft<sup>3</sup>/s.

b Maximum gage height, 4.22 ft, Nov 22, 1979, backwater from ice.

#### 09036000 WILLIAMS FORK NEAR LEAL, CO

LOCATION.--Lat 39°50′02", long 106°03′21", in sec.31, T.2 S., R.77 W., Grand County, Hydrologic Unit 14010001, on right bank at downstream side of bridge, 100 ft downstream from Kinney Creek, and 1.7 mi northwest of Leal.

DRAINAGE AREA.--89.5 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1933 to current year. Records since May 10, 1940, equivalent to earlier records if diversion to August P. Gumlick Tunnel is added to flow past station. Prior to October 1958, published as Williams River near Leal. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09036000

REVISED RECORDS.--WSP 1733: 1951. WSP 2124: Drainage area. WRD CO. 1973: 1972.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,790 ft above NGVD of 1929, from topographic map. Prior to Aug. 16, 1953, at site 15 ft downstream at present datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversion upstream from station through August P. Gumlick Tunnel (see table below for figures of diversion). Diversions for irrigation of about 200 acres of hay meadows upstream from station and about 40 acres downstream from station.

ADD MAY HIM HII ALIC CED
APR MAY JUN JUL AUG SEP
42     55     159     152     52     29       45     52     151     179     51     28       45     58     161     169     51     28       43     73     178     161     48     30       46     91     190     156     47     40
49     117     213     149     47     38       50     128     271     140     44     37       49     137     261     133     42     33       52     138     266     123     39     31       46     161     254     119     37     32
43     170     228     113     36     35       43     155     204     107     36     32       43     146     193     84     35     31       45     118     210     74     34     31       46     106     204     84     33     32
48     105     197     86     32     34       53     116     192     89     33     e32       59     115     192     89     37     e28       52     141     171     89     58     e31       50     171     160     90     57     e33
50         185         176         80         45         e37           47         184         172         71         41         e38           45         171         153         74         40         e35           42         183         142         87         37         e36           43         168         140         69         34         e37
42     159     145     63     32     e35       47     164     136     62     33     e34       53     172     158     65     36     e36       53     191     143     60     33     e37       60     172     171     57     30     e48        156      57     29
,431     4,258     5,591     3,131     1,239     1,018       47.7     137     186     101     40.0     33.9       60     191     271     179     58     48       42     52     136     57     29     28       ,840     8,450     11,090     6,210     2,460     2,020       355     3,047     4,155     1,083     793     510
ER YEAR (WY)
36.4     179     480     213     69.9     44.0       91.3     392     966     765     198     98.4       (1946)     (1996)     (1938)     (1983)     (1983)     (1961)       19.8     76.1     109     31.0     17.6     18.4       (1944)     (1968)     (2002)     (2002)     (2002)     (2002)
FOR 2004 WATER YEAR WATER YEARS 1934 - 2004
21,526 b74.6

Estimated.

Diversions in acre-feet, through August P. Gumlick Tunnel, provided by Denver Water Board.

Includes diversions through August P. Gumlick Tunnel, since May 10, 1940. Does not include diversions through August P. Gumlick Tunnel. Also occurred Aug 20, 27-28, 2002.

Maximum gage height, 5.46 ft, Jun 29, 1971, backwater from log.

#### 09037500 WILLIAMS FORK NEAR PARSHALL, CO

LOCATION.--Lat 40°00′01", long 106°10′45", in SW  $^{1}\!\!/_{4}$  SW  $^{1}\!\!/_{4}$  sec.31, T.1 N., R.78 W., Grand County, Hydrologic Unit 14010001, on left bank 40 ft downstream from bridge on State Highway 286, 3.7 mi downstream from Skylark Creek, 3.9 mi south of Parshall, and 4.2 mi upstream from Williams Fork Reservoir Dam.

DRAINAGE AREA.--184 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1904 to September 1924, June 1933 to current year. Records since May 10, 1940, equivalent to earlier records if diversion to August P. Gumlick Tunnel is added to flow past station. Published as "near (Hot) Sulphur Springs", 1904-12, and as Williams River near Parshall, June 1933 to September 1958. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09037500

REVISED RECORDS.--WSP 1243: 1918. WSP 2124: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 7,808.95 ft above NGVD of 1929, (Denver Board of Water Commissioners Datum). See WSP 1733 for history of changes prior to Aug. 9, 1938. Aug. 10, 1938 to Aug. 19, 1983, gage located on right bank at present datum. Aug. 19, 1983 to May 14, 1991, gage located 120 ft downstream of present site on left bank at present datum. May 14, 1991 to Sep. 24, 2003, gage located 10 ft upstream from present site and datum.

REMARKS.—Records good except for estimated daily discharges, which are poor. Transmountain diversion upstream from station through August P. Gumlick Tunnel (station 09035000). Diversions for irrigation of about 1,300 acres upstream from station, and about 2,500 acres downstream from station. About 150 acres upstream from station irrigated by diversions into the drainage area.

DISCHARGE, CUBIC FEET PER SECOND

					YEAR OC		ET PER SECC TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	50 49 49 45 43	35 41 49 48 44	e51 e50 e51 e50 e48	e42 e42 e42 e42 e40	e40 e41 e41 e41 e41	e38 e38 e39 e39	77 83 87 80 86	101 98 104 119 142	116 114 115 132 142	136 145 138 107 86	18 17 17 15 15	14 14 14 15 16
6 7 8 9 10	43 42 41 40 39	49 50 49 46 50	e48 e47 e47 e47 e47	e42 e41 e41 e41 e41	e41 e38 e41 e41 e39	e38 e39 e39 e39 e39	94 98 93 101 93	178 187 197 200 206	180 220 257 245 231	84 70 65 58 55	16 15 15 15 14	15 15 15 15 15
11 12 13 14 15	46 42 40 38 39	50 46 50 51 49	e47 e47 e46 e46 e46	e41 e41 e41 e40 e40	e41 e37 e38 e40 e40	e39 e40 e40 e40 e40	83 82 81 85 86	235 220 201 181 149	183 152 124 133 140	53 50 48 45 45	14 14 14 13 13	15 15 15 14 15
16 17 18 19 20	38 47 56 54 53	42 50 49 48 56	e45 e45 e45 e45 e45	e40 e40 e40 e40 e40	e40 e40 e40 e40 e40	e40 e40 e41 e43 e46	90 101 110 96 94	144 148 147 163 198	133 130 136 121 101	49 48 48 37 26	13 13 15 19 37	15 15 15 15 15
21 22 23 24 25	53 52 52 50 44	53 e53 e46 e52 e53	e45 e45 e45 e44 e44	e40 e40 e40 e40 e40	e40 e40 e40 e41 e40	e51 e54 e56 e59 e61	91 88 83 78 80	211 204 186 184 183	125 147 116 93 81	22 20 20 25 38	57 52 51 39 16	18 18 17 16 17
26 27 28 29 30 31	31 40 39 39 38 35	e52 e51 e51 e52 e52	e44 e44 e43 e42 e42 e42	e40 e40 e40 e40 e40 e40	e38 e39 e39 e38	e62 e61 56 64 65 68	77 85 98 102 110	149 147 135 165 146 121	90 81 93 92 122	37 36 36 30 19	14 14 15 14 14	17 17 18 18 21
TOTAL MEAN MAX MIN AC-FT a	1,367 44.1 56 31 2,710 549	1,467 48.9 56 35 2,910 329	1,423 45.9 51 42 2,820 230	1,257 40.5 42 40 2,490 127	1,155 39.8 41 37 2,290 97	1,453 46.9 68 38 2,880 174	2,692 89.7 110 77 5,340 355	5,149 166 235 98 10,210 3,047	4,145 138 257 81 8,220 4,155	1,695 54.7 145 19 3,360 1,083	622 20.1 57 13 1,230 793	474 15.8 21 14 940 510
STATISTI	CS OF MON	THLY MEA	N DATA FO	R WATER YE	EARS 1905	- 2004, BY W	ATER YEAR	R (WY)				
MEAN MAX (WY) MIN (WY)	59.8 151 (1962) 17.6 (1956)	50.9 80.9 (1985) 32.5 (1982)	42.1 65.6 (1985) 26.8 (1950)	37.1 59.5 (1910) 22.6 (1964)	35.2 53.9 (1912) 22.6 (1964)	39.5 87.8 (1910) 21.5 (1971)	79.9 199 (1962) 29.9 (1981)	270 711 (1984) 28.9 (1963)	550 1,243 (1918) 38.6 (1954)	210 855 (1983) 15.9 (2002)	85.1 245 (1984) 13.8 (1988)	61.3 153 (1909) 11.1 (1966)
SUMMAR	Y STATISTIC	CS		FOR 2003 CA	ALENDAR Y	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 190	05 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				51,717 142 e1,500 21 21 102,600 481 45 29	Jun Jul Aug	31	25 1 1 33 556,80	78.4 57 Jun 13 Aug 13 Aug 13 Jun 3.28 Jun 00		d2,5 d2,5 d2,6	f4.8 M 5.1 M 620 J 6.05 J	1984 2002 un 14, 1918 ay 6, 1972 ay 6, 1972 un 14, 1918 un 14, 1918

Diversions in acre-ft through August P. Gumlick Tunnel provided by Denver Water Board. Includes diversions through August P. Gumlick Tunnel.

Does not include diversions through August P. Gumlick Tunnel. Site and datum then in use, from rating curve extended above 1,400 ft<sup>3</sup>/s. Also occurred May 8-10, 1972.

220 WILLIAMS FORK BASIN

#### 09038500 WILLIAMS FORK BELOW WILLIAMS FORK RESERVOIR, CO

 $LOCATION.--Lat~40°02'07", long~106°12'17", in~NW^{1}_{4}SE^{1}_{4}~sec. 23,~T.1~N.,~R.79~W.,~Grand~County,~Hydrologic~Unit~14010001,~on~left~bank~400~ft~downstream~from~Williams~Fork~Reservoir,~2.1~mi~upstream~from~mouth,~and~2.1~mi~southwest~of~Parshall.$ 

DRAINAGE AREA.--230 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1948 to September 1954, August 1958 to current year. Monthly discharge only for some periods, published in WSP 1313. Prior to October 1958, published as Williams River below Williams Fork Reservoir. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09038500

REVISED RECORDS .-- WSP 2124: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry, and concrete control. Datum of gage is 7,615.0 ft above NGVD of 1929, (Denver Board of Water Commissioners Datum). See WSP 1713 or 1733 for history of changes prior to Oct. 21, 1959.

REMARKS.—No estimated daily discharges. Records good. Flow completely regulated by Williams Fork Reservoir (station 09038000). Transmountain diversion upstream from station through August P. Gumlick Tunnel (station 09036000). Diversions upstream from station for irrigation of about 3,200 acres and about 100 acres downstream from station. About 450 acres upstream from station irrigated by diversion into the drainage area.

				R YEAR OCT	ГОВЕ <b>R</b> 2003	TO SEPTEM					
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
169 160 185 202 202	101 100 140 164 89	114 111 113 115 117	79 78 78 79 80	75 74 74 74 74	62 62 62 62 62	18 17 16 15 16	19 18 18 18	18 15 15 15 15	17 17 17 17 17	128 161 160 128 129	232 233 233 232 232
200 198 197 201 203	75 75 74 74 74	116 113 111 110 111	79 79 80 80 80	74 73 72 73 67	62 62 62 62 56	16 16 16 16 16	18 18 18 18	15 15 15 15 15	17 17 18 18 17	128 128 128 142 155	232 232 232 232 232 232
199 197 174 156 157	74 76 74 69 66	111 111 111 111 111	80 80 80 81 81	63 62 62 62 62	48 48 49 49 55	16 16 16 16 16	18 17 17 16 16	16 18 17 17	16 16 17 18 50	156 181 197 197 197	232 232 232 244 254
135 125 129 129 110	66 66 68 77 76	113 113 113 106 97	83 85 85 85 85	62 62 63 63 64	71 78 78 72 60	16 16 16 16 16	16 16 16 16 16	17 17 17 17 17	109 197 317 323 236	218 240 245 247 239	239 205 204 201 205
97 100 102 102 82	82 87 86 95 103	95 96 88 81 78	79 75 74 74 75	64 63 62 62 62	37 19 18 18	15 16 16 16 16	16 16 16 16	17 16 16 17 17	110 137 175 184 183	223 210 210 226 258	165 117 115 115 115
75 74 74 73 80 104	101 102 110 113 113	78 78 78 78 77 77	74 67 75 77 74 73	62 62 62 62 	18 18 18 18 18	16 16 17 16 18	16 15 15 16 16	17 16 17 18 17	183 183 183 183 153 126	258 258 242 265 281 250	117 145 171 197 214
4,391 142 203 73 8,710	2,670 89.0 164 66 5,300	3,133 101 117 77 6,210	2,434 78.5 85 67 4,830	1,916 66.1 75 62 3,800	1,440 46.5 78 18 2,860	484 16.1 18 15 960	518 16.7 19 15 1,030	491 16.4 18 15 974	3,271 106 323 16 6,490	6,185 200 281 128 12,270	6,041 201 254 115 11,980
129 264 (1979) 23.5 (1988)	131 276 (1979) 36.7 (1995)	104 251 (1966) 13.5 (1983)	101 264 (1984) 14.7 (1983)	89.4 279 (1966) 7.88 (1995)	92.3 265 (1966) 14.1 (1983)	78.0 273 (1986) 6.04 (1960)	110 401 (1952) 6.29 (1960)	195 1,007 (1952) 10.8 (1961)	168 782 (1983) 7.97 (1963)	159 352 (1981) 19.2 (1986)	156 342 (1981) 17.1 (1986)
Y STATISTI	CS		FOR 2003 C	ALENDAR '	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 194	9 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS			96 316 14 14 69,720 234 66	Sep Apr Apr	15	as 32 1 1 33 a65,40	23 Jul 15 Apr 15 Jun 33 Jul 2.57 Jul 00	4 2 19	b2,6 d2,6 a90,0	254 39.1 360 Ju c0.30 Ma 0.54 A 640 Ju 8.50 Ju 650 249	1984 1959 nn 28, 1983 ay 14, 1963 pr 27, 1959 nn 20, 1953 nn 20, 1953
	169 160 185 202 202 202 200 198 197 201 203 199 197 174 156 157 135 125 129 129 110 97 100 102 102 82 75 74 74 73 80 104 4,391 142 203 73 8,710 S OF MON 129 264 (1979) 23.5 (1988)  Z STATISTI OTAL MEAN ANNUAL M OAILY MEA SEVEN-DA' EVEN-DA' EVEN-D	169 101 160 100 185 140 202 164 202 89 200 75 198 75 197 74 201 74 203 74 199 74 197 76 174 74 156 69 157 66 135 66 125 66 129 68 129 77 110 76 97 82 100 87 102 86 102 95 82 103 75 101 74 102 74 110 73 113 80 113 104 4,391 2,670 142 89,0 203 164 73 66 8,710 5,300 8S OF MONTHLY MEAN 129 131 264 276 (1979) (1979) 23.5 36.7 (1988) (1995)  7 STATISTICS TOTAL ANNUAL MEAN NUAL MEAN NUA	169 101 114 160 100 111 185 140 113 202 164 115 202 89 117 200 75 116 198 75 113 197 74 111 201 74 110 203 74 111 199 74 111 199 74 111 197 76 111 174 74 111 156 69 111 157 66 111 155 66 113 125 66 113 129 68 113 129 77 106 110 76 97 97 82 95 100 87 96 102 86 81 129 77 106 110 76 97 97 82 95 100 87 96 102 86 88 102 95 81 82 103 78 75 101 78 74 110 78 73 113 78 74 110 78 74 110 78 73 113 78 74 110 78 73 113 78 74 110 78 75 101 78 76 77 77 78 78 113 78 77 104 78 78 4,391 2,670 3,133 142 89.0 101 203 164 117 73 66 77 8,710 5,300 6,210 205 OF MONTHLY MEAN DATA FOR SOF MONTHLY MEAN DATA FOR SOTAL MEAN NNUAL MEAN NAUL MEAN NNUAL MEAN NNUAL MEAN NNUAL MEAN NNUAL MEAN NNUAL MEAN NNUAL MEAN NAUL MEAN NAUL MEAN NAUL MEAN NAUL MEAN NAUL MEAN NAU	OCT NOV DEC JAN  169 101 114 79 160 100 111 78 185 140 113 78 202 164 115 79 202 89 117 80 200 75 116 79 198 75 113 79 197 74 111 80 201 74 110 80 203 74 111 80 199 74 111 80 199 74 111 80 197 76 111 80 197 76 111 80 1156 69 111 81 157 66 111 81 157 66 111 81 157 66 111 81 157 66 111 81 157 66 111 81 105 66 113 83 125 66 113 85 129 68 113 85 129 77 106 85 110 76 97 85 129 77 106 85 110 76 97 85 102 86 88 74 102 95 81 74 82 103 78 75 75 101 78 74 102 95 81 74 82 103 78 75 75 101 78 74 104 96 75 102 97 81 74 104 97 85 75 101 78 74 104 97 85 75 101 78 74 104 97 85 75 101 78 74 104 97 85 75 101 78 74 104 97 85 75 101 78 74 104 97 85 75 101 78 74 104 97 85 75 101 78 74 104 97 85 75 101 78 74 104 97 85 75 101 78 74 104 97 85 75 101 78 74 104 97 85 75 101 78 74 104 97 85 75 101 78 74 104 97 85 75 101 78 74 104 97 87 105 113 77 74 106 97 85 107 113 78 75 75 101 78 74 104 97 87 105 113 77 74 106 97 85 107 113 78 75 108 113 77 74 109 196 113 81 109 110 78 75 110 78 73 113 78 77 104 105 78 113 78 77 105 105 105 105 105 105 105 105 105 105	OCT NOV DEC JAN FEB  169 101 114 79 75 160 100 111 78 74 185 140 113 78 74 202 164 115 79 74 202 289 117 80 74 203 87 110 80 72 201 75 116 79 74 198 75 113 79 73 197 74 111 80 72 201 74 110 80 73 203 74 111 80 63 197 76 111 80 63 197 76 111 80 62 174 74 111 80 62 174 74 111 80 62 175 66 111 81 62 174 74 111 80 62 175 66 111 81 62 175 66 111 81 62 175 66 113 83 62 125 66 113 83 62 125 66 113 85 63 129 68 113 85 63 129 68 113 85 63 129 68 113 85 63 110 76 97 85 64 97 82 95 79 64 97 82 95 79 64 100 87 96 75 63 110 76 97 85 64 97 82 95 79 64 100 87 96 75 63 102 86 88 74 62 102 95 81 74 62 82 103 78 75 62 75 101 78 74 62 82 103 78 75 62 75 101 78 74 62 80 113 77 74 62 80 113 77 74 62 80 113 77 74 62 80 113 77 74 62 80 113 77 74 62 80 113 77 74 62 80 113 77 74 62 80 113 77 74 62 80 113 77 74 62 80 113 77 74 62 80 113 77 74 74 74 100 78 75 62 75 101 78 74 62 80 113 77 74 74 104 77 78 75 62 80 113 77 74 74 104 77 78 75 62 80 113 77 74 74 104 77 78 77 62 80 113 77 74 74 104 77 78 77 62 80 113 77 74 74 104 77 78 77 62 80 113 77 74 74 104 77 78 77 62 80 113 77 74 74 104 77 78 75 62 87 73 66 77 67 62 87 1988 (1995) (1983) (1983) (1995) 87 STATISTICS FOR 2003 CALENDAR 78 18 COTAL 35,149 19 69,720 17 EXCEEDS 666	OCT NOV DEC JAN FEB MAR  169 101 114 79 75 62 180 100 111 78 74 62 1815 140 113 78 74 62 202 189 117 80 74 62 202 89 117 80 74 62 200 75 116 79 74 62 198 75 113 79 73 62 201 74 111 80 72 62 203 74 111 80 72 62 203 74 111 80 63 48 199 74 111 80 63 48 199 74 111 80 63 48 199 75 16 111 80 62 49 197 76 111 80 62 49 117 74 111 80 62 49 117 75 66 111 81 62 49 1156 69 111 81 62 49 1157 66 113 83 62 71 125 66 113 83 62 71 125 66 113 83 62 71 125 66 113 85 62 78 129 77 106 85 63 72 110 76 85 63 72 110 76 85 63 72 110 76 85 63 72 110 76 85 63 72 110 76 85 63 72 110 76 97 85 64 60 174 100 87 96 75 63 199 78 40 60 75 63 129 77 106 85 63 72 110 76 97 85 64 60 174 100 87 96 75 63 19 100 87 96 96 96 10 100 87 96 96 96 10 100 87 96 96 96 10 100 87 96 96 96 10 100 87 96 96 96 10 100 87 96 96 96 10 100 87 96 96 96 96 96 96 96 96 96 96 96 96 96	OCT NOV DEC JAN FEB MAR APR  169 101 114 79 75 62 18 160 100 111 78 74 62 17 185 140 113 78 74 62 16 202 164 115 79 74 62 16 202 164 115 79 74 62 16 200 75 116 79 74 62 16 200 75 116 79 74 62 16 201 74 111 80 72 62 16 201 74 110 80 73 62 16 201 74 111 80 72 62 16 201 74 111 80 67 56 16 201 74 111 80 67 56 16 201 74 111 80 67 56 16 203 74 111 80 63 48 16 199 74 111 80 62 48 16 199 74 111 80 62 48 16 197 76 111 80 62 49 16 156 69 111 81 62 49 16 156 69 111 81 62 55 16 135 66 113 83 62 71 16 125 66 113 85 62 78 16 129 68 113 85 62 78 16 129 77 106 85 63 72 16 110 76 97 82 95 79 64 37 15 100 87 96 75 63 19 16 100 87 96 75 63 19 16 100 87 96 75 63 19 16 100 87 96 75 63 19 16 100 87 96 75 63 19 16 102 95 81 74 62 18 16 102 95 81 74 62 18 16 102 95 81 74 62 18 16 104 78 73 18 16 105 13 13 79 73 74 16 110 78 79 79 79 79 79 79 79 79 79 79 79 79 79	OCT NOV DEC JAN FEB MAR APR MAY	OCT	WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004	Not   Dall   Mark   Value   Value

Adjusted for storage at Williams Fork Reservoir.

Not adjusted for storage at Williams Fork Reservoir.

No flow for part of Apr 29, 1975.

d Site and datum then in use, from rating curve extended above 1,500 ft<sup>3</sup>/s.

#### 09041090 MUDDY CREEK ABOVE ANTELOPE CREEK NEAR KREMMLING, CO

LOCATION.--Lat 40°12′09", long 106°25′19", in SE¹/₄SE¹/₄ sec.23, T.3 N., R.81 W., Grand County, Hydrologic Unit 14010001, on left bank at upstream side of box culverts on U.S. Highway 40, 10.9 mi north of Kremmling.

DRAINAGE AREA.--145 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1990 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site no=09041090

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,520 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor.

#### DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES NOV JUN SEP DAY OCT DEC JAN FEB MAR APR MAY ш. AUG e7.5 e12 e9.9 2.9 e5.4 e7.0 e6.6 110 29 17 2 e7.6 e5.4 e7.2 e12 e9.7 e6.5 40 109 25 13 2.6 e12 e12 25 3 e7.7 e5.3 e7.4 e9.5 e6.4 47 133 10 7.7 2.6 2.8 24 e12 e9.5 41 8.9 5.9 e5.3 e7.5 e6.3 214 5 e7.9 e12 e5.9 254 23 8.9 3.5 e9.5 58 5.0 e5.3 e7.6 6 e8.0 e5.2 e7.7 e12 e9.2 e5.7 64 276 23 8.6 4.8 4.6 e9.1 e8.1 7.2 e5.2 e5.2 e12 e12 24 26 8.2 6.7 4.8 4.2 4.9 3.7 e7.9 e5.8 305 8 e6.0 105 e9.0 300 e8.1 7.1 285 e5.1 e8.3 e12 e8.5 e6.1 23 3.6 7.5 90 22 3.0 2.9 10 e5.1 e8.5 e12 e8.4 e6.4 265 4.5 11 7.2 e7 9 281 2.1 4 5 33 e5 1 e8.7 e12 e6.7 68 2.6 237 21 2.4 3.8 12 7.6 e5.0 e8.8 e11 e7.2 e7.3 60 4.3 7.8 e5.0 e8.8 e6.7 e7.4 52 180 3.3 13 e12 7.2 e4.9 e8.9 57 20 e6.4 e7.2 2.3 15 6.6 e4.8 e9.1 e12 e6.3 e7.3 68 130 17 4.3 1.7 16 6.3 e4.7 e9.2 e12 e6.3 e7.7 77 144 15 4.4 1.9 e12 17 2.5 6.2 e4.6 e9.5 e6.1 e7.7 104 147 4.6 1.8 18 e6.2 e4.6 e9.7 e12 e6.0 e7.9 139 155 21 5.0 3.3 1.7 e12 19 e6.2 e4.7 e9.7 e6.4 e8.3 117 185 28 5 2 5 5 2.1 4.9 2.5 24 e4.9 e12 e22 20 e6.0e9.7 e6.4 105 189 6.6 21 e6.0 e5.1 e9.7 e12 e30 93 158 23 4.9 5.4 6.6 e6.4 22 23 e5.9 e5.3 e9.9 e6.4 e45 74 60 137 25 17 4.7 e11 6.6 e5.5 102 90 6.0 e5.8 e10 e11 e6 6 e6040 24 9.7 e5.7 5.8 e10 e7.0 63 50 92 13 e11 3.6 6.1 25 5.9 e5.9 e10 e7.0 56 51 94 94 10 3.4 7.3 e11 26 27 58 58 49 5.8 83 7.8 e6.0 e11 e11 e7.1 12 89 32 9.9 50 e5.8 e6.2 e11 e11 e7.3 64 6.4 3.6 7.1 9.5 28 e5.7 e6.4 e7.3 38 54 4.8 3.9 6.1 e11 106 e11 34 51 e5.6 e7.1 129 8.9 4.7 4.0 5.3 e6.6 e11 e11 57 10 7.8 e6.8 135 e11 31 e5.5 e12 e9.6 ---32 39 5.0 3.0 359.6 220.2 125.0 TOTAL 211.3 160.3 286.9 657.2 2,318 4,965 590.7 211.2 125.2 5.34 4.17 9.25 7.59 21.2 77.3 4.03 MEAN 6.82 11.6 160 19.7 6.81 MAX 12 6.8 12 12 99 63 139 305 29 17 7.8 7.0 4.3 MIN 5.5 4.6 9.6 6.0 5.7 34 39 89 2.2 17 419 713 318 569 437 1.300 4.600 9.850 419 248 AC-FT 1,170 248 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2004, BY WATER YEAR (WY) MEAN 8.34 7.83 19.9 92.9 138 10.7 8.80 8.90 8.11 346 14.1 8.83 52.2 38.2 26.4 21.8 20.3 18.7 53.4 152 659 27.5 45.2 MAX 366 (WY) (1998)(1998)(1998)(1998)(1998)(1998)(2000)(1997)(1995)(1995)(1997)(1997)MIN 4.23 4.36 2.82 2.03 3.00 9.86 40.8 76.8 6.09 2.69 2.63 2.06 (1991) (1991)(2003)(2002)(1994)(WY) (2003)(1995)(2001)(1995)(2002)(2002)(2002)SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1990 - 2004 10,230.6 ANNUAL TOTAL 18,255.8 50.0 57.4 ANNUAL MEAN 28.0 HIGHEST ANNUAL MEAN 109 1997 LOWEST ANNUAL MEAN 2002 16.1 May 18, 1996 May 25 HIGHEST DAILY MEAN 563 305 908 May 7 LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM e1.6 e1.7 Jan 16 Jan 12 Sep 8, 2002 Sep 4, 2002 Sep 15 0.80 1.9 Sep 14 0.95 MAXIMUM PEAK FLOW 357 955 Jun 20, 1994 May MAXIMUM PEAK STAGE 4.58 a7.36 Jun 20, 1994 May ANNUAL RUNOFF (AC-FT 36,210 20,290 41,610 10 PERCENT EXCEEDS 136 85 170

7.9

4.0

10

3.9

50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

8.8

3.6

e Estimated.

a Maximum gage height, 7.43 ft, May 18, 1996 and May 17, 1997.

222 MUDDY CREEK BASIN

# 09041400 MUDDY CREEK BELOW WOLFORD MOUNTAIN RESERVOIR NEAR KREMMLING, CO

 $LOCATION.--Lat\ 40^{\circ}06'31", long\ 106^{\circ}24'48", in\ NW^{1}_{4}SE^{1}_{4}\ sec. 25,\ T.2\ N.,\ R.81\ W.,\ Grand\ County,\ Hydrologic\ Unit\ 14010001,\ on\ left\ bank\ 1,500\ ft\ downstream\ from\ Wolford\ Mountain\ Reservoir,\ and\ 4\ mi\ northwest\ of\ Kremmling.$ 

DRAINAGE AREA.--270 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1995 to current year. For a complete listing of historical data available for this site see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=09041400

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,380 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated data which is fair. Flow is entirely regulated by Wolford Mountain Reservoir.

KEMAKK	SRecords	good except 1	for estimated	data which is	Tair. Flow is	entirely regula	ated by Wolfe	ora Mountain	Reservoir.				
DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	20 20 20 20 20 21	14 15 15 15 15	13 13 13 13 13	14 15 15 15 15	15 14 14 14 14	13 13 13 13 13	15 15 15 15 15	20 18 19 43 58	56 56 56 39 29	21 21 20 21 21	18 75 141 142 138	155 157 156 157 158	
6 7 8 9 10	21 21 22 22 22 22	15 15 15 15 15	13 13 14 15 14	15 15 15 15 15	14 14 14 14 14	14 13 13 13 17	15 15 15 15 16	59 59 59 59 59	29 29 29 30 30	21 20 20 65 106	137 137 139 150 155	159 148 145 150 150	
11 12 13 14 15	22 22 22 22 22 21	15 15 15 15 15	14 14 14 14 15	15 15 15 15 15	14 14 14 14 14	21 21 21 21 23	16 16 15 16 19	59 60 60 59 58	30 30 30 30 30	105 104 89 58 56	155 155 176 186 186	150 151 150 149 150	
16 17 18 19 20	20 20 20 20 20 20	15 15 14 14 14	14 14 15 15 15	15 15 15 15 15	15 15 14 14 14	31 34 29 23 23	23 22 22 21 20	58 42 34 32 32	30 31 31 31 31	50 46 46 45 60	185 186 172 154 151	160 167 e168 e168 e163	
21 22 23 24 25	20 19 15 15	14 14 14 14 14	15 15 15 15 15	15 15 15 15 15	14 14 13 13	14 11 13 13 13	21 21 21 21 21	32 33 33 32 33	31 30 30 30 30	67 69 59 40 40	e151 e151 e160 169 169	e159 e159 159 159 160	
26 27 28 29 30 31	15 15 15 15 14 15	14 14 13 13 13	15 15 14 15 14 14	15 15 15 15 15 15	13 13 13 13	13 13 14 14 13 14	19 19 19 20 20	33 41 58 57 58 57	30 30 26 22 22	39 39 34 26 30 24	169 161 157 152 149 150	160 175 198 217 221	
TOTAL MEAN MAX MIN AC-FT	591 19.1 22 14 1,170	433 14.4 15 13 859	440 14.2 15 13 873	464 15.0 15 14 920	402 13.9 15 13 797	527 17.0 34 11 1,050	543 18.1 23 15 1,080	1,414 45.6 60 18 2,800	968 32.3 56 22 1,920	1,462 47.2 106 20 2,900	4,676 151 186 18 9,270	4,878 163 221 145 9,680	
				OR WATER Y				, ,	166	60.0	00.2	110	
MEAN MAX (WY) MIN (WY)	68.1 172 (1998) 19.1 (2004)	26.5 46.5 (1998) 14.4 (2004)	20.7 32.7 (1998) 7.07 (1996)	21.2 32.3 (1998) 15.0 (2004)	22.4 34.4 (1998) 13.8 (2003)	35.5 75.8 (1997) 17.0 (2004)	78.6 249 (1996) 18.1 (2004)	210 454 (1998) 41.6 (2003)	166 492 (1997) 28.8 (2003)	68.0 99.6 (2000) 22.5 (2002)	98.2 153 (1996) 23.4 (2003)	110 189 (1998) 20.0 (2003)	
SUMMAF	RY STATIST	TCS		FOR 2003 C	CALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 199	5 - 2004	
ANNUAL HIGHEST LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU	ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK STAGE ANNUAL BLINGER (AC ET)			123	5.1 3 Jul 7.1 Feb ) Feb	22	22	45.9  21 Sep 11 Mai 13 Mai 25 Sep 5.60 Sep	r 21 o 29	1,0	2.8 De 3.4 De 030 Ju 8.39 Ju	1997 2003 n 3, 1997 c 3, 1995 c 2, 1995 n 2, 1997 n 2, 1997	
ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				18,930 46 20 14	5		15	20 54 20 14		56,7	790 180 33 19		

e Estimated.

BLUE RIVER BASIN 223

# 09041900 MONTE CRISTO DIVERSION NEAR HOOSIER PASS, CO

LOCATION.--Lat 39°22'51", long  $106^\circ04'15$ ", in NE $^1_4$ SE $^1_4$ sec.2, T.8 S., R.78W., Summit County, Hydrologic Unit 14010002, on left bank at entrance to Hoosier Pass Tunnel, 2,200 ft downstream from diversion point, 1.4 mi northwest of Hoosier Pass, and 7 mi southwest of Breckenridge.

PERIOD OF RECORD.--October 1957 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09041900

GAGE.--Water-stage recorder with satellite telemetry, and Parshall flume. Elevation of gage is 10,986 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. This is a transmountain diversion from Monte Cristo Creek in Blue River Basin through Hoosier Pass Tunnel to South Platte River Basin from which it is again diverted to South Catamount Creek in the Arkansas River Basin. Water is for municipal use by city of Colorado Springs. Diversion point is in SW 1/4NE 1/4 sec. 2, T.8 S., R.78 W. The entire flow is regulated by diversion gates.

COOPERATION .-- Gage-height record collected in cooperation with city of Colorado Springs.

 $EXTREMES\ FOR\ PERIOD\ OF\ RECORD.--Maximum\ daily\ discharge,\ 73\ ft^3/s,\ Aug.\ 12-14,\ 1980\ and\ Sept.\ 29,\ 1994;\ no\ flow\ for\ most\ of\ each\ year.$ 

### DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40						e0.00	0.58	1.5	2.8	e0.00	e0.00
2	40						e0.00	0.57	1.6	2.3	e0.00	e0.00
3	39						e0.00	0.95	1.9	1.9	e0.00	e0.00
4	37						e0.00	2.3	2.1	1.5	e0.00	e0.00
5	36						e0.00	4.1	2.5	1.4	e0.00	e0.00
6	35						e0.00	5.1	2.9	1.3	e0.00	e0.00
7	34						e0.00	5.1	3.0	1.2	e0.00	e0.00
8	33						e0.71	4.7	3.0	1.2	e0.00	e0.00
9	29						0.72	4.4	3.1	1.1	e0.00	e0.00
10	26						0.71	4.7	3.0	1.0	e0.00	e0.00
11	22						0.64	4.8	2.3	0.97	e0.00	e0.00
12	21						0.58	3.9	1.9	0.94	e0.00	e0.00
13	21						0.54	2.8	1.7	0.87	e0.00	e0.00
14	16						0.47	2.0	1.6	0.94	e0.00	e0.00
15	8.4						0.53	2.0	1.6	1.1	e0.00	e0.00
16	4.2						0.53	2.2	1.6	0.62	e0.00	e0.00
17	e0.00						0.50	2.3	1.6	e0.00	e0.00	e0.00
18	e0.00						0.47	2.9	1.8	e0.00	e0.00	e0.00
19	e0.00						0.65	4.2	1.7	e0.00	e0.00	e0.00
20	e0.00						0.79	5.2	1.6	e0.00	e0.00	e0.00
21	e0.00						0.79	4.9	1.7	e0.00	e0.00	e0.00
22	e0.00						0.67	4.1	1.6	e0.00	e0.00	e0.00
23	e0.00						0.58	3.3	1.4	e0.00	e0.00	e0.00
24	e0.00						0.58	2.9	1.3	e0.00	e0.00	e0.00
25	e0.00						0.58	2.6	1.3	e0.00	e0.00	e0.00
26	e0.00						0.58	2.2	1.4	e0.00	e0.00	e0.00
27	e0.00						0.58	2.1	1.6	e0.00	e0.00	e0.00
28	e0.00						0.64	2.3	1.8	e0.00	e0.00	e0.00
29	e0.00						0.58	2.3	2.2	e0.00	e0.00	e0.00
30	e0.00						0.58	2.1	3.1	e0.00	e0.00	e0.00
31	e0.00							1.7		e0.00	e0.00	
TOTAL	441.60						14.00	95.30	59.4	21.14	0.00	0.00
MEAN	14.2						0.47	3.07	1.98	0.68	0.00	0.00
MAX	40						0.79	5.2	3.1	2.8	0.00	0.00
MIN	0.00						0.00	0.57	1.3	0.00	0.00	0.00
AC-FT	876						28	189	118	42	0.00	0.00

e Estimated.

224 BLUE RIVER BASIN

# 09044300 BEMROSE-HOOSIER DIVERSION NEAR HOOSIER PASS, CO

LOCATION.--Lat 39°22'50", long 106°04'13", in  $NE^{1}_{4}SE^{1}_{4}$  sec. 2, T.8 S., R.78 W., Summit County, Hydrologic Unit 14010002, on right bank at entrance to Hoosier Pass Tunnel, 1.4 mi northwest of Hoosier Pass, 1.6 mi downstream from diversion point on Bemrose Creek, and 7 mi southwest of Breckenridge.

PERIOD OF RECORD.--October 1957 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09044300

GAGE.--Water-stage recorder with satellite telemetry, and Parshall flume. Elevation of gage is 10,986 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. This is a transmountain diversion from Bemrose and Hoosier Creeks in Blue River Basin through Hoosier Pass Tunnel to South Platte River Basin from which it is again diverted to South Catamount Creek in the Arkansas River Basin. Water is for municipal use by city of Colorado Springs. Diversion points are in  $SW^{1}_{4}SW^{1}_{4}$  sec.6, T.8 S., R.77 W., and in sec.12, T.8 S., R.78 W. The entire flow is regulated by diversion gates.

COOPERATION .-- Gage-height record collected in cooperation with City of Colorado Springs.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 44 ft<sup>3</sup>/s, June 21, 1965; no flow for most of each year.

### DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00						0.00	1.1	4.9	5.2	1.7	e0.00
2	0.00						e0.00	1.2	5.1	5.0	1.7	e0.00
3	0.00						e0.00	1.5	5.5	4.5	1.7	e0.00
4	0.00						e0.00	2.0	6.4	4.2	1.6	e0.00
5	0.00						e0.00	2.8	7.8	4.1	1.6	e0.00
6	0.00						e0.00	3.1	9.2	4.1	1.5	e0.00
7	0.00						e0.00	3.3	9.4	3.6	1.4	e0.00
8	0.00						e0.85	3.6	8.8	3.7	1.4	e0.00
9	0.00						e0.97	3.4	9.1	3.5	e0.83	e0.00
10	0.00						e0.00	3.5	8.6	3.4	e0.00	e0.00
11	0.00						e0.00	4.0	7.4	3.2	e0.00	e0.00
12	0.00						e0.00	2.7	6.7	3.1	e0.00	e0.00
13	0.00						e0.00	2.2	6.4	3.1	e0.00	e0.00
14	0.00						e1.0	1.9	6.5	3.3	e0.00	e0.00
15	0.00						e1.1	2.0	6.3	3.1	e0.00	e0.00
16	0.00						e1.0	2.2	6.2	3.0	e0.00	e0.00
17	0.00						1.2	2.0	6.0	2.6	e0.00	e0.00
18	0.00						1.3	2.6	6.2	2.4	e0.00	e0.00
19	0.00						e1.1	4.4	6.0	2.4	e0.00	e0.00
20	0.00						e0.00	5.7	5.7	2.3	e0.00	e0.00
21	0.00						e0.00	6.1	5.8	2.2	e0.20	e0.00
22	0.00						e0.00	5.7	5.5	2.2	1.4	e0.56
23	0.00						e0.00	5.2	5.1	2.2	1.4	e1.0
24	0.00						e0.00	5.1	4.9	2.2	1.3	1.3
25	0.00						e0.00	5.2	4.9	2.1	e0.35	1.3
26	0.00						e0.00	4.9	4.9	2.0	e0.00	1.3
27	0.00						e1.0	e4.9	4.9	1.9	e0.00	1.3
28	0.00						1.2	5.4	4.9	1.9	e0.00	1.3
29	0.00						1.2	5.5	5.5	1.9	e0.00	e0.63
30	0.00						1.1	5.2	5.7	1.8	e0.00	e0.00
31	0.00							4.9		1.8	e0.00	
TOTAL	0.00						13.02	113.3	190.3	92.0	18.08	8.69
MEAN	0.00						0.43	3.65	6.34	2.97	0.58	0.29
MAX	0.00						1.3	6.1	9.4	5.2	1.7	1.3
MIN	0.00						0.00	1.1	4.9	1.8	0.00	0.00
AC-FT	0.00						26	225	377	182	36	17

e Estimated.

## 09044800 MCCULLOUGH-SPRUCE-CRYSTAL DIVERSION NEAR HOOSIER PASS, CO

LOCATION.--Lat 39°22'51", long  $106^\circ04'14$ ", in  $NE^1_4SE^1_4$  sec. 2, T.8 S., R.78 W., Summit County, Hydrologic Unit 14010002, on left bank at entrance to Hoosier Pass Tunnel, 1.4 mi northwest of Hoosier Pass, 1.6 mi downstream from diversion point on McCullough Gulch, and 7 mi southwest of Breckenridge.

PERIOD OF RECORD.--October 1957 to current year (seasonal records only). Prior to October 1961, Published as McCullough Diversion near Hoosier Pass. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09044800

GAGE.--Water-stage recorder with satellite telemetry, and Parshall flume. Elevation of gage is 10,986 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. This is a transmountain diversion from McCullough Gulch and Spruce and Crystal Creeks in Blue River Basin through Hoosier Pass Tunnel to South Platte River Basin from which it is again diverted to South Catamount Creek in the Arkansas River Basin. Water is for municipal use by city of Colorado Springs. Diversion points are in secs.14, 23, and 26, T.7 S., R.78 W. The entire flow is regulated by diversion gates.

COOPERATION .-- Gage-height record collected in cooperation with City of Colorado Springs.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 142 ft<sup>3</sup>/s, May 30, 2003; no flow for most of each year.

## DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.00						0.00	0.81	11	38	e0.00	e0.00
2	e0.00						0.00	0.98	13	36	e0.00	e0.00
3	e0.00						0.00	2.1	18	31	e0.00	e0.00
4	e0.00						0.00	4.1	26	27	e0.00	e0.00
5	e0.00						0.00	7.1	37	25	e0.00	e0.00
6	e0.00						0.00	10	51	27	e0.00	e0.00
7	e0.00						0.00	12	57	26	e0.00	e0.00
8	e0.00						0.00	12	59	26	e0.00	e0.00
9	e0.00						e0.00	13	65	25	e0.00	e0.00
10	e0.00						e0.00	15	56	25	e0.00	e0.00
11	e0.00						e0.00	18	33	24	e0.00	e0.00
12	e0.00						e0.00	16	24	24	e0.00	e0.00
13	e0.00						e0.44	11	24	25	e0.00	e0.00
14	e0.00						0.63	8.0	35	30	e0.00	e0.00
15	e0.00						0.79	6.8	40	42	e0.00	e0.00
16	e0.00						0.98	7.8	38	e31	e0.00	e0.00
17	e0.00						1.4	8.7	34	e0.00	e0.00	e0.00
18	e0.00						1.3	13	34	e0.00	e0.00	e0.00
19	e0.00						1.1	23	33	e0.00	e0.00	e0.00
20	e0.00						0.90	30	34	e0.00	e0.00	e0.00
21	e0.00						0.83	29	32	e0.00	e0.00	e0.00
22	e0.00						0.62	28	24	e0.00	e0.00	e0.00
23	e0.00						0.50	21	22	e0.00	e0.00	e0.00
24	e0.00						0.50	19	24	e0.00	e0.00	e0.00
25	e0.00						0.50	18	25	e0.00	e0.00	e0.00
26	e0.00						0.50	16	26	e0.00	e0.00	e0.00
27	e0.00						0.72	16	26	e0.00	e0.00	e0.00
28	e0.00						1.2	21	32	e0.00	e0.00	e0.00
29	e0.00						1.1	24	36	e0.00	e0.00	e0.00
30	e0.00						0.98	16	43	e0.00	e0.00	e0.00
31	e0.00							12		e0.00	e0.00	
TOTAL	0.00						14.99	439.39	1,012	462.00	0.00	0.00
MEAN	0.00						0.50	14.2	33.7	14.9	0.00	0.00
MAX	0.00						1.4	30	65	42	0.00	0.00
MIN	0.00						0.00	0.81	11	0.00	0.00	0.00
AC-FT	0.00						30	872	2,010	916	0.00	0.00

e Estimated.

## 09046490 BLUE RIVER AT BLUE RIVER, CO

 $LOCATION.--Lat~39^\circ27'21", long~106^\circ01'52", in~NE^1/_4SE^1/_4~sec.7, T.7~S., R.77~W., Summit~County, Hydrologic~Unit~14010002~on~left~bank, 350~ft~downstream~from~spillway~of~Goose~Pasture~Tarn~Dam~and~2.0~mi~southeast~of~Breckenridge.$ 

DRAINAGE AREA.--42.4 mi<sup>2</sup>.

 $PERIOD\ OF\ RECORD. -- October\ 1983\ to\ current\ year.\ For\ a\ complete\ listing\ of\ historical\ data\ available\ for\ this\ site,\ see\ http://waterdata.usgs.gov/co/nwis/inventory/\\ ?site\_no=09046490$ 

REVISED RECORDS.--WDR CO-95-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and concrete control. Elevation of gage is 9,835 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Transmountain diversions upstream from station by Boreas Pass Ditch and Hoosier Pass Tunnel.

					R YEAR OC		ET PER SECO TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	14 15 16 16 16	10 10 10 12 12	7.4 8.2 10 11	9.8 9.8 9.7 9.7 9.5	2.2 2.2 2.2 2.2 2.3	1.9 1.9 1.9 1.9	4.7 6.9 8.7 8.2 8.0	8.4 8.4 8.9 12 15	21 21 20 20 20	17 13 12 11 11	23 24 23 21 21	15 14 14 14 16
6 7 8 9 10	16 15 15 14 14	11 11 10 11 10	11 11 12 12 12	9.4 6.9 6.2 5.8 3.1	2.3 2.4 2.2 2.1 1.8	2.0 1.9 1.9 1.9	8.2 9.1 9.7 11 12	18 24 24 21 25	22 24 25 25 28	12 9.8 9.4 8.6 8.3	22 20 19 17 17	16 14 13 13
11 12 13 14 15	15 14 18 13	9.6 9.1 9.7 8.2 9.2	12 11 10 9.9 10	2.4 2.1 1.3 1.1 1.8	1.7 1.8 1.8 1.9	1.9 1.9 2.0 2.0 1.9	10 8.5 7.5 8.3 9.0	22 23 25 20 17	26 23 22 20 19	7.9 7.4 6.7 7.0 8.7	16 15 15 14 13	13 12 12 11 11
16 17 18 19 20	13 13 13 13 13	12 12 12 14 14	10 12 12 12 11	2.4 2.3 2.4 2.4 2.4	1.9 1.9 1.8 1.9	2.0 1.9 2.0 2.9 5.2	8.5 8.5 8.5 8.5 8.5	17 18 19 21 25	18 18 19 18 17	12 51 56 58 67	13 14 15 29 33	11 10 9.6 9.6 9.7
21 22 23 24 25	14 13 10 14 17	13 13 14 15 15	11 12 12 10 9.6	2.4 2.5 2.5 2.5 2.4	1.9 1.9 1.9 1.8 1.9	5.4 5.3 3.7 3.9 7.0	8.5 8.4 8.3 8.1 8.8	15 8.9 9.3 9.5 9.5	18 19 16 14 13	66 63 57 60 50	32 27 27 24 22	15 18 15 15 14
26 27 28 29 30 31	16 13 13 12 11	14 14 13 12 9.6	10 10 10 11 10 9.9	2.2 2.2 2.2 2.3 2.2 2.2	2.0 2.0 1.9 2.0	7.1 7.1 7.0 7.1 5.8 4.7	9.5 9.4 8.7 8.3 8.4	9.6 9.8 9.9 11 22 22	14 14 15 15 19	44 42 38 33 28 26	21 20 20 18 16 16	15 15 14 15 28
TOTAL MEAN MAX MIN AC-FT	430 13.9 18 10 853	349.4 11.6 15 8.2 693	331.0 10.7 12 7.4 657	126.1 4.07 9.8 1.1 250	57.7 1.99 2.4 1.7 114	106.9 3.45 7.1 1.9 212	258.7 8.62 12 4.7 513	508.2 16.4 25 8.4 1,010	583 19.4 28 13 1,160	900.8 29.1 67 6.7 1,790	627 20.2 33 13 1,240	414.9 13.8 28 9.6 823
MEAN MAX (WY) MIN (WY)	18.7 32.2 (1985) 13.5 (1992)	13.3 26.5 (1985) 8.62 (1992)	9.74 18.9 (1985) 6.96 (1995)	6.54 14.3 (1985) 3.15 (2003)	5.11 8.11 (1985) 1.99 (2004)	4.95 8.31 (2000) 2.63 (2003)	11.0 21.9 (1989) 5.53 (1993)	57.8 128 (1996) 12.5 (2002)	114 276 (1995) 11.7 (2002)	81.5 327 (1995) 13.9 (2002)	42.1 120 (1995) 11.5 (2002)	25.2 44.3 (1984) 10.6 (2002)
SUMMAI	RY STATIST	TICS		FOR 2003 C	'ALENDAR '	YEAR	FOR 200	)4 WATER Y	EAR	WATER	YEARS 198	4 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE 50 PERCE	. MEAN 「ANNUAL! 「ANNUAL! 「DAILY ME 「DAILY ME	MEAN EAN AN LY MINIMU! LOW FAGE AC-FT) DS DS	М	221 1 1 23,660 101 13	2.7 May .5 Jan .8 Mar	29	9,31 2	12.8 57 Ju 1.1 Jar 1.8 Fet 72 Ju 1.39 Ju	1 20 1 14 1 10 1 20 2 20		1.1 Ja 1.8 M 581 Ju 3.23 Ju	1995 2002 ul 12, 1995 nn 14, 2004 ar 6, 2003 nn 18, 1995 nn 18, 1995

## 09046530 FRENCH GULCH AT BRECKENRIDGE, CO

 $LOCATION.--Lat.\ 39^{\circ}29'35'',\ long.\ 106^{\circ}02'39'',\ in\ SE^{1}_{4}SW^{1}_{4},\ sec. 30,\ T.6\ S,\ R.77\ W,\ Summit\ County,\ Hydrologic\ Unit\ 14010002,\ on\ left\ bank,\ 300\ ft\ south\ of\ Summit\ Co.\ Rd.\ 450,\ 200\ ft\ upstream\ from\ bridge\ on\ Hwy.\ 9,\ in\ Breckenridge.$ 

DRAINAGE AREA.--10.9 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1995 to September 2003. October 2003 to September 2004 (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09046530

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,510 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. No diversion or regulation upstream from gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 124 ft<sup>3</sup>/s, June 5, 1997, gage height, 7.09 ft; minimum daily, 1.2 ft<sup>3</sup>/s, Feb. 23, 2002.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 19 ft<sup>3</sup>/s, June 10, gage height, 5.90 ft; minimum daily, 2.3 ft<sup>3</sup>/s, Apr. 1.

## DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0						2.3	3.2	9.4	9.7	5.9	4.1
2	4.2						2.4	3.2	9.2	9.3	6.1	4.0
3	4.2						2.4	3.3	9.2	8.9	6.0	3.8
4	4.0						2.4	3.7	10	8.5	5.6	3.8
5	3.9						2.5	4.5	10	8.4	5.6	4.2
6	3.7						2.6	5.5	12	8.2	5.4	4.1
7	3.6						2.6	5.9	15	7.9	5.2	3.7
8	3.5						2.6	6.5	16	7.6	4.9	3.5
9	3.5						2.8	7.0	16	7.3	4.5	3.4
10	3.4						2.7	7.5	17	7.1	4.3	3.4
11	3.6						2.5	8.6	15	7.0	4.0	3.3
12	3.4						2.5	9.0	13	6.7	3.9	3.2 3.2
13	3.3						2.5	7.9	12	6.5	3.8	3.2
14	3.3						2.5	7.0	12	6.5	3.7	3.2
15	3.2						2.6	6.5	12	7.0	3.5	3.2
16	3.2						2.6	6.3	12	8.0	3.5	3.2
17	3.1						2.8	7.0	12	10	3.5	3.1
18	3.1						3.1	6.9	11	8.9	3.9	3.1
19	e3.0						3.1	8.4	11	8.2	6.3	3.0
20	e3.0						3.0	10	11	8.4	7.7	3.0
21	e3.0						3.0	11	11	8.8	7.0	3.9
22	e2.9						2.9	11	10	8.4	6.4	4.3
23	e2.9						2.8	10	9.8	9.2	6.4	4.0
24	e2.9						2.7	9.6	9.5	9.4	5.9	3.9
25	e2.8						2.7	9.6	9.6	8.5	5.7	3.7
26	e2.8						2.7	9.4	9.9	8.1	5.5	3.6
27	e2.8						2.8	9.5	9.8	8.1	5.3	3.5
28	e2.8						3.0	9.8	9.6	7.4	5.3	3.5
29	e2.8						3.1	10	9.6	6.9	4.7	3.5
30	e2.8						3.3	10	9.7	6.7	4.5	3.8
31	e2.8							9.6		6.4	4.3	
TOTAL	101.5						81.5	237.4	343.3	248.0	158.3	107.2
MEAN	3.27						2.72	7.66	11.4	8.00	5.11	3.57
MAX	4.2						3.3	11	17	10	7.7	4.3
MIN	2.8						2.3	3.2	9.2	6.4	3.5	3.0
AC-FT	201						162	471	681	492	314	213

e Estimated.

## 09046600 BLUE RIVER NEAR DILLON, CO

 $LOCATION.--Lat~39^{\circ}34'00", long~106^{\circ}02'56", in~SW^{1}_{4}SE^{1}_{/4}~sec. 31, T.5~S., R.77~W., Summit County, Hydrologic Unit~14010002, on left bank~0.3~mi~upstream~from~Dillon~Reservoir, and~5.0~mi~south~of~Dillon.$ 

DRAINAGE AREA.--121 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1957 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=09046600

REVISED RECORDS.--WSP 2124: Drainage area. WDR CO-95-2: 1994.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,020 ft above NGVD of 1929, from topographic map. Prior to Aug. 6, 1992, at site 1.4 mi upstream at different datum. Aug. 6, 1992 to Oct. 20, 1994, at site 200 ft upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversions upstream from station by Boreas Pass Ditch and Hoosier Pass Tunnel (see elsewhere in this report).

					YEAR OC		ET PER SECO TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	45 45 45 46 47	37 36 36 36 35	e31 e32 e32 e31 e31	e25 e25 e24 e24 e24	e22 e22 e22 e22 e22	e21 e21 e21 e21 e21	e30 e31 e32 e32 e32	38 39 38 38 41	88 87 85 83 86	83 81 74 69 65	68 63 61 63 60	42 40 39 38 38
6 7 8 9 10	46 45 45 45 43	34 33 33 33 32	e31 e28 e28 e28 e29	e24 e24 e24 e24 e24	e22 e22 e22 e22 e21	e21 e21 e21 e21 e21	e34 e35 35 37 38	49 58 68 79 82	87 92 101 107 109	63 63 59 56 54	56 55 54 52 48	39 40 39 38 35
11 12 13 14 15	43 44 43 43 44	33 33 33 32 32	e28 e28 e28 e27 e27	e24 e24 e23 e23 e22	e21 e21 e21 e21 e21	e21 e20 e20 e21 e21	39 39 38 37 36	84 90 89 87 81	113 110 106 101 96	53 50 48 47 46	46 44 42 41 40	35 35 34 33 33
16 17 18 19 20	42 40 40 40 40	32 32 31 31 30	e27 e27 e27 e27 e26	e22 e22 e22 e22 e22	e21 e21 e21 e21 e21	e21 e21 e22 e24 e27	36 37 38 38 38	72 67 67 68 76	94 92 92 93 91	50 59 97 108 108	38 38 38 42 52	35 36 37 36 36
21 22 23 24 25	39 39 38 38 37	e31 e31 e31 e31	e26 e26 e26 e25 e25	e22 e22 e22 e22 e22	e21 e21 e21 e21 e21	e29 e28 e26 e26 e28	38 37 37 36 36	86 91 85 79 74	89 93 92 85 79	120 115 111 115 111	63 67 65 62 57	38 40 44 46 45
26 27 28 29 30 31	37 37 37 38 38 38	e31 e31 e31 e31	e25 e25 e25 e25 e25 e25	e22 e22 e22 e22 e22 e22	e21 e21 e21 e21	e29 e29 e29 e28 e28 e28	36 36 36 37 38	73 71 72 75 80 83	74 75 76 76 77	104 98 90 85 79 72	53 51 49 49 48 44	45 43 43 43 43
TOTAL MEAN MAX MIN AC-FT	1,287 41.5 47 37 2,550	974 32.5 37 30 1,930	851 27.5 32 25 1,690	710 22.9 25 22 1,410	618 21.3 22 21 1,230	736 23.7 29 20 1,460	1,079 36.0 39 30 2,140	2,180 70.3 91 38 4,320	2,729 91.0 113 74 5,410	2,433 78.5 120 46 4,830	1,609 51.9 68 38 3,190	1,168 38.9 46 33 2,320
STATIST: MEAN	ICS OF MON 51.3	THLY MEA 38.5	N DATA FO 31.0	R WATER YE 26.0	EARS 1958 - 24.0	- 2004, BY W 23.5	ATER YEAF 40.0	R (WY) 177	333	198	103	66.6
MAX (WY) MIN (WY)	101 (1985) 30.6 (1978)	74.4 (1985) 23.8 (1978)	54.0 (1984) 21.7 (1978)	40.3 (1984) 17.0 (1995)	36.0 (1983) 17.2 (1992)	32.5 (1983) 17.0 (1995)	77.7 (1985) 23.0 (1964)	461 (1996) 57.5 (2002)	661 (1995) 65.9 (2002)	644 (1995) 44.4 (2002)	241 (1984) 36.7 (2002)	143 (1983) 30.8 (2002)
SUMMAF	RY STATIST	ICS		FOR 2003 CA	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 19:	58 - 2004
LOWEST HIGHEST LOWEST	MEAN ANNUAL M ANNUAL M DAILY ME DAILY ME	IEAN AN AN		37,098 102 734 e17	Jun Mar		12 e2	14.7 20 Ju 20 Ma	1 21 r 12		16 F	1984 2002 un 26, 1983 eb 12, 1993
MAXIMU MAXIMU ANNUAL 10 PERCE 50 PERCE	, SEVEN-DA IM PEAK FL IM PEAK ST , RUNOFF (A ENT EXCEEI ENT EXCEEI	AGE AC-FT) OS OS	Л	73,580 313 40 18	Mar	4	32,48 8	31 Ju 5.04 Ju	r 7 121 121	a76,0	390 J 6.91 J	Iar 3, 1995 un 18, 1995 un 18, 1995

e Estimated.a Adjusted for diversions to Hoosier Pass Tunnel.b Also occurred Jun 18, 1995.

## 09047500 SNAKE RIVER NEAR MONTEZUMA, CO

LOCATION.--Lat 39°36'20", long 105°56'33", in NW<sup>1</sup>/<sub>4</sub> sec.19, T.5 S., R.76 W. (projected), Summit County, Hydrologic Unit 14010002, on right bank 200 ft downstream from North Fork and 4.5 mi northwest of Montezuma.

DRAINAGE AREA.--57.7 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1942 to September 1946, October 1951 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09047500

REVISED RECORDS .-- WSP 2124: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,320 ft above NGVD of 1929, from topographic map. Prior to Oct. 14, 1943, nonrecording gage at present site and datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Small diversions upstream from station for irrigation and domestic use.

			YEAR OC	TOBER 2003	TO SEPTEM					
NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
24 24 26 28 28	e24 e24 e23 e22 e22	e20 e20 e20 e20 e19	e12 e12 e12 e12 e12	e9.0 e11 e11 e12 e12	e23 e23 e24 e25 e25	26 27 34 43 56	89 90 95 101 107	84 73 67 64 62	39 40 39 36 37	e21 21 21 22 26
27 25 24 24 24	e22 e22 e22 e21 e21	e19 e19 e19 e19 e19	e12 e12 e12 e12 e12	e12 e12 e13 e13 e13	e26 e27 e28 e29 22	71 83 88 90 98	126 143 141 141 140	60 59 57 54 53	35 33 32 30 29	26 24 22 21 22
24 26 25 24 29	e21 e21 e21 e21 e20	e19 e19 e18 e18 e18	e12 e12 e12 e12 e12	e14 e14 e14 e14	25 24 24 23 22	106 95 75 65 61	118 104 97 101 101	51 49 47 47 58	28 28 27 26 26	23 21 21 20 20
e28 e28 e28 e28 e29	e20 e20 e20 e20 e20	e18 e13 e13 e13 e13	e12 e10 e10 e10 e10	e15 e15 e15 e16 e16	24 27 28 26 24	64 67 75 104 131	99 98 98 89 86	68 80 77 67 65	26 26 31 36 37	20 19 19 19 20
e26 e24 e24 e24 e27	e20 e20 e20 e20 e20	e13 e12 e12 e12 e12	e9.9 e9.8 e9.8 e9.6 e9.4	e17 e19 e20 e21 e23	23 23 23 23 21	135 128 113 111 107	95 86 76 72 73	60 57 60 61 52	32 31 e29 e28 e27	23 25 23 24 26
e27 e27 e26 e25 e25	e20 e20 e20 e20 e20 e20	e12 e12 e12 e12 e12 e12	e9.4 e9.4 e9.4 e9.4	e30 e31 e31 e29 e27 e26	22 26 29 28 27	102 105 116 117 96 91	77 77 78 82 90	49 48 46 44 43 42	e26 e25 e24 e23 e22 e22	26 25 25 25 28
778 25.9 29 24 1,540	647 20.9 24 20 1,280	489 15.8 20 12 970	318.1 11.0 12 9.4 631	539.0 17.4 31 9.0 1,070	744 24.8 29 21 1,480	2,680 86.5 135 26 5,320	2,970 99.0 143 72 5,890	1,804 58.2 84 42 3,580	930 30.0 40 22 1,840	678 22.6 28 19 1,340
19.9 39.5 (1985) 11.8 (1965)	15.6 25.9 (1985) 9.90 (1978)	12.4 18.0 (1985) 7.03 (1963)	10.9 16.4 (1997) 7.00 (1946)	- 2004, BY W 10.9 17.4 (2004) 7.40 (1973)	18.3 35.4 (1946) 8.34 (1973)	101 216 (1958) 28.7 (1995)	280 520 (1997) 55.8 (2002)	144 385 (1995) 29.0 (2002)	65.1 177 (1984) 22.9 (2002)	38.0 90.7 (1984) 18.0 (1977)
CS		FOR 2003 CA	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 194	3 - 2004
EAN EAN IN N	Л	28,700	6 May Mar	31 4	13,52 3 14 e 18 26,83	3 Jun 9.0 Man 9.4 Feb 4 Jun 2.08 Jun 99	7 · 1 · 24 · 7	1,2 44,9	62.0 95.8 25.2 870 Ju 5.0 Fe 6.0 Ja 1550 Ju 23.51 Ju	1997 2002 nn 22, 1995 eb 26, 1964 nn 9, 1963 nn 10, 1952 nn 10, 1952
	24 24 24 26 28 28 27 25 24 24 24 24 24 24 24 24 24 24 24 29 e28 e28 e28 e28 e29 e26 e24 e24 e24 e27 e27 e26 e25 e25 e25 e1,540 FHLY MEA  19,9 39.5 (1985) 11.8 (1965) CS EAN EAN N M MINIMUM OW GGE EAN CGFFT) S	24 e24 24 e24 26 e23 28 e22 28 e22 28 e22 27 e22 24 e21 24 e21 24 e21 24 e21 24 e21 25 e21 24 e21 26 e21 27 e20 28 e20 29 e20 20 e28 e20 21 e28 e20 21 e28 e20 22 e28 e20 29 e20 20 e28 e20 21 e28 e20 21 e28 e20 22 e28 e20 228 e20 228 e20 238 e20 24 e21 25 e21 26 e21 27 e20 28 e20 29 e20 29 e20 20 e28 e20 20 e29 e20 21 e20 22 e20 23 e20 25 e20 26 e20 27 e20 28 e20 29 e20 29 24 24 20 1,540 1,280  THLY MEAN DATA FO  19.9 15.6 39.5 25.9 (1985) (1985) 11.8 9.90 (1965) (1978)  CS  EAN EAN EAN EAN EAN EAN EAN EAN EAN EA	NOV DEC JAN  24 e24 e20 24 e24 e20 26 e23 e20 28 e22 e20 28 e22 e19  27 e22 e19 25 e22 e19 24 e21 e19 24 e21 e19 24 e21 e19 24 e21 e19 25 e22 e19 26 e21 e19 27 e22 e19 28 e22 e19 29 e20 e18 e28 e20 e13 e28 e20 e18 e28 e20 e18 e28 e20 e13 e29 e20 e12 e27 e20 e12 e24 e20 e12 e27 e20	NOV DEC JAN FEB  24 e24 e20 e12 24 e24 e20 e12 26 e23 e20 e12 28 e22 e20 e19 27 e22 e19 e12 25 e22 e19 e12 24 e21 e19 e12 25 e22 e19 e12 26 e21 e19 e12 26 e21 e19 e12 27 e22 e19 e12 28 e22 e19 e12 29 e20 e18 e19 e12 20 e20 e18 e19 e12 21 e28 e20 e18 e19 e19 25 e21 e18 e12 29 e20 e18 e12 29 e20 e18 e10 29 e20 e18 e10 28 e20 e13 e10 28 e20 e13 e10 28 e20 e13 e10 28 e20 e13 e10 29 e20 e13 e10 29 e20 e13 e10 29 e20 e13 e10 29 e20 e13 e10 20 e28 e20 e13 e10 20 e28 e20 e13 e10 20 e28 e20 e13 e10 21 e29 e20 e13 e10 22 e28 e20 e13 e10 25 e29 e20 e13 e10 26 e29 e20 e13 e10 27 e20 e12 e9.8 28 e20 e12 e9.8 29 e24 e20 e12 e9.4 29 e27 e20 e12 e9.4 29 e27 e20 e12 e9.4 29 e25 e20 e12 e9.4 20 12 e9.4 21 e25 e20 e12 e9.4 225 e20 e12 e9.4 25.9 20.9 15.8 11.0 29 24 20 12 24 20 12 e9.4 25.9 20.9 15.8 11.0 29 24 20 12 24 20 12 e9.4 25.9 20.9 15.8 11.0 29 24 20 12 24 20 12 e9.4 25.9 20.9 15.8 11.0 29 24 20 12 24 20 12 e9.4 25.9 20.9 15.8 11.0 29 24 20 12 24 20 12 e9.4 25.9 20.9 15.8 11.0 29 24 20 12 24 20 12 e9.4 25.9 20.9 15.8 11.0 29 24 20 12 24 20 12 e9.4 25.9 20.9 15.8 11.0 29 24 20 12 24 20 12 e9.4 25.9 20.9 15.8 11.0 29 24 20 12 24 20 12 e9.4 25.9 20.9 15.8 11.0 29 24 20 12 24 20 12 e9.4 26.5 e20 e12 e9.4 27 e20 e12 e9.4 28 e25 e20 e12 e9.4 28 e25 e20 e12 e9.4 29 e25 e20 e12 e9.4 29 e25 e20 e12 e9.4 20 e25 e20 e12 e9.6 20 e26	NOV DEC JAN FEB MAR  24 e24 e20 e12 e10 26 e23 e20 e12 e11 28 e22 e20 e12 e12 27 e22 e19 e12 e12 25 e22 e19 e12 e13 24 e24 e20 e19 e12 e12 25 e22 e19 e12 e13 24 e21 e19 e12 e14 25 e21 e19 e12 e13 24 e21 e19 e12 e14 26 e21 e19 e12 e14 26 e21 e19 e12 e14 27 e22 e19 e12 e13 28 e22 e29 e20 e15 e16 29 e20 e18 e12 e14 20 e21 e19 e12 e16 21 e18 e12 e14 22 e21 e19 e12 e14 24 e21 e19 e12 e14 25 e21 e18 e12 e14 26 e21 e18 e12 e14 27 e20 e18 e12 e14 29 e20 e18 e12 e14 29 e20 e18 e12 e16 28 e20 e13 e10 e15 28 e28 e20 e13 e10 e15 28 e28 e20 e13 e10 e16 29 e20 e13 e10 e16 20 e26 e20 e13 e10 e16 20 e26 e20 e13 e10 e16 227 e20 e12 e9.8 e20 224 e20 e12 e9.8 e20 225 e20 e12 e9.4 e30 226 e24 e20 e12 e9.4 e30 227 e20 e12 e9.4 e31 24 e20 e12 e9.4 e31 25.9 e27 e20 e12 e9.4 e31 262 e27 e20 e12 e9.4 e31 27 e20 e12 e9.4 e31 28.70 29 24 20 12 e9.4 e31 29 24 20 12 e9.4 e31 25.9 20.9 15.8 11.0 17.4 29 24 20 12 e9.4 e31 25.9 20.9 15.8 11.0 17.4 29 24 20 12 e9.4 e31 25.9 20.9 15.8 11.0 17.4 29 24 20 12 e9.4 e31 25.9 20.9 15.8 11.0 17.4 29 24 20 12 e9.4 e31 25.9 20.9 15.8 11.0 17.4 29 24 20 12 e9.4 e31 21.540 1,280 970 631 1,070  FHLY MEAN DATA FOR WATER YEARS 1943 - 2004, BY W  19.9 15.6 12.4 10.9 10.9 39.5 25.9 18.0 16.4 17.4 17.4 19.9 15.6 12.4 10.9 10.9 39.5 25.9 18.0 16.4 17.4 18.8 9.90 7.03 7.00 7.40 1965) (1978) (1963) (1946) (1973)  CS FOR 2003 CALENDAR YEAR 28.700 78.6 EAN 3N 12 Mar 4 4 MINIMUM 13 Mar 1  WM 4 MINIMUM 13 Mar 1  WM 5 12 Mar 4  MINIMUM 13 Mar 1  WM 6 26 May 31 N 6 12 Mar 4  MINIMUM 13 Mar 1  WM 6 26 May 31 N 7 12 Mar 4  MINIMUM 13 Mar 1	NOV DEC JAN FEB MAR APR  24 e24 e20 e12 e11 e23 26 e23 e20 e12 e11 e24 28 e22 e19 e12 e12 e25 27 e22 e19 e12 e12 e12 e25 27 e22 e19 e12 e13 e28 24 e21 e29 e12 e13 e28 24 e21 e19 e12 e12 e25 27 e22 e19 e12 e13 e28 24 e21 e19 e12 e12 e26 24 e21 e19 e12 e13 e28 24 e21 e19 e12 e13 e29 24 e21 e19 e12 e13 e29 24 e21 e19 e12 e13 e29 25 e21 e18 e12 e14 25 26 e21 e18 e12 e14 25 27 e22 e19 e12 e14 25 28 e20 e18 e12 e14 24 29 e20 e18 e12 e14 23 29 e20 e18 e12 e14 23 29 e20 e13 e10 e15 27 28 e28 e20 e13 e10 e15 27 28 e28 e20 e13 e10 e16 26 28 e20 e13 e10 e16 26 28 e20 e13 e10 e16 26 28 e20 e13 e10 e16 26 29 e20 e13 e10 e16 26 20 e28 e20 e13 e10 e16 26 20 e28 e20 e13 e10 e16 26 20 e24 e20 e12 e9.8 e19 23 22 e24 e20 e12 e9.8 e19 23 23 e24 e20 e12 e9.8 e20 262 e24 e20 e12 e9.8 e19 23 262 e24 e20 e12 e9.8 e19 23 27 e24 e20 e12 e9.8 e20 e23 28 e20 e13 e10 e16 26 29 e20 e13 e10 e16 26 20 e21 e9.4 e31 29 24 e20 e12 e9.8 e20 e23 21 e24 e20 e12 e9.8 e20 e23 22 e24 e20 e12 e9.4 e31 29 24 e20 e12 e9.4 e31 29 25 e20 e12 e9.4 e31 29 264 e20 e12 e9.4 e31 29 27 e20 e12 e9.4 e31 29 28 e25 e20 e12 e9.4 e31 29 29 e25 e20 e12 e9.4 e31 29 24 20 12 e9.4 e31 29 25 e25 e20 e12 e9.4 e31 29 265 e20 e12 e9.4 e31 29 27 e20 e12 e9.4 e31 29 28 e25 e20 e12 e9.4 e31 29 29 e25 e20 e12 e9.4 e31 29 24 20 12 e9.4 e31 29 25 e25 e20 e12 e9.4 e31 29 265 e20 e12 e9.4 e31 29 27 e20 e12 e9.4 e31 29 28 e25 e20 e12 e9.4 e31 29 29 24 20 12 9.4 9.0 21 29 24 20 12 9.4 9.0 21 29 24 20 12 9.4 9.0 21 29 24 20 12 9.4 9.0 21 29 24 20 12 9.4 9.0 21 29 24 20 12 9.4 9.0 21 29 24 20 12 9.4 9.0 21 29 24 20 12 9.4 9.0 21 29 24 20 12 9.4 9.0 21 29 24 20 12 9.4 9.0 21 29 24 20 12 9.4 9.0 21 29 24 20 12 9.4 9.0 21 29 24 20 12 9.4 9.0 21 29 29 28 28 28 20 62 62 62 62 62 62 62 62 62 62 62 62 62	NOV DEC JAN FEB MAR APR MAY  24	NOV   DEC   JAN   FEB   MAR   APR   MAY   JUN	NOV DEC JAN FEB MAR APR MAY JUN JUL  24 e24 e20 e12 e11 e23 27 90 79 79 79 79 73 26 89 84 84 22 e20 e12 e11 e24 34 95 67 67 62 8 e22 e20 e12 e12 e12 e25 56 107 62 28 e22 e19 e12 e12 e12 e25 56 107 62 25 62 21 e19 e12 e12 e25 56 107 62 25 e22 e19 e12 e12 e25 56 107 62 24 e21 e19 e12 e12 e25 98 144 59 89 89 89 89 89 89 89 89 89 89 89 89 89	NOV DEC JAN FEB MAR APR MAY JUN JUL AUG  24 e24 e20 e12 e90 e23 26 89 84 39  24 e24 e20 e12 e11 e23 27 90 73 40  25 e22 e20 e12 e11 e24 34 95 67 39  28 e22 e19 e12 e12 e25 43 101 64 39  27 e22 e19 e12 e12 e25 56 107 62 37  27 e22 e19 e12 e12 e25 56 107 62 37  27 e22 e19 e12 e12 e27 83 1143 59 33  24 e21 e19 e12 e12 e27 83 1143 59 33  24 e21 e19 e12 e13 e29 90 141 53 29  24 e21 e19 e12 e13 e29 90 141 53 29  24 e21 e19 e12 e13 e29 90 141 53 29  24 e21 e19 e12 e13 e29 90 141 53 29  24 e21 e19 e12 e13 e29 90 141 54 30  25 e22 e20 e19 e12 e14 25 106 118 51 28  26 e28 e20 e18 e12 e14 25 106 118 51 28  27 e22 e19 e12 e14 25 106 118 51 28  28 e22 e19 e19 e12 e14 25 106 118 51 28  29 e24 e21 e19 e12 e14 25 106 118 51 28  20 e28 e20 e18 e12 e14 29 67 97 47 27  21 e21 e18 e12 e14 24 99 97 97 47 27  22 e21 e18 e12 e14 23 65 100 47 27  23 e29 e20 e18 e12 e14 29 65 100 47 27  24 e21 e18 e12 e14 29 67 97 47 27  25 e21 e18 e12 e14 29 67 97 47 37  26 e28 e20 e18 e12 e14 29 67 97 47 37  27 e28 e20 e13 e10 e15 28 75 98 77 31  28 e28 e20 e13 e10 e15 27 67 98 60 26  28 e20 e13 e10 e15 27 67 98 60 26  28 e20 e13 e10 e16 26 104 89 67 31  264 e20 e13 e10 e16 26 104 89 67 31  264 e20 e13 e10 e16 26 104 89 67 31  264 e20 e12 e98 e19 23 128 86 65 37  31 e24 e24 e20 e12 e98 e20 e33 e10 e16 26 104 89 67 31  264 e20 e12 e98 e20 e33 e10 e16 26 104 89 67 31  265 e27 e20 e18 e19 23 128 86 65 73 31  266 e29 e20 e13 e10 e16 26 104 89 67 31  267 e29 e20 e13 e10 e16 26 104 89 67 31  268 e20 e13 e10 e16 26 104 89 67 31  269 e20 e13 e10 e16 26 104 89 67 31  260 e28 e20 e13 e10 e16 26 104 89 67 31  261 e29 e20 e13 e10 e16 26 104 89 67 31  262 e26 e20 e13 e10 e16 26 104 89 67 31  263 e27 e20 e12 e94 e31 29 107 77 49 e26  264 e20 e12 e98 e20 e31 29 e96 90 90 90 90 90 90 90 90 90 90 90 90 90

e Estimated.

a Maximum gage height, 3.88 ft, Jun 6, 1972.

## 09047700 KEYSTONE GULCH NEAR DILLON, CO

LOCATION.--Lat 39°35'40", long 105°58'19", in NE 1/4NE 1/4 sec.26, T.5 S., R.77 W., Summit County, Hydrologic Unit 14010002, on right bank 0.7 mi upstream from mouth, and 4.7 mi southeast of Dillon.

DRAINAGE AREA.--9.10 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1957 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=09047700

REVISED RECORDS .-- WSP 2124: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,350 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. No known diversion upstream from station.

KEMAKK	.SRecords	good except i	oi estimateu	dairy discharg	ges, which are	poor. No kii	own diversion	upstream no	om station.			
					DISCHARGE R YEAR OCT DAI		TO SEPTEM					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	2.7 2.8 2.8 2.7 2.7	2.9 3.4 e3.5 e3.5 e3.5	3.7 3.9 4.1 4.1 4.1	3.7 3.8 3.8 3.7 3.7	2.5 2.5 2.5 2.4 2.3	2.0 2.0 2.0 2.0 2.0	3.0 3.2 3.1 2.9 3.1	e4.7 e4.8 e5.2 e5.5 e6.1	5.2 5.1 5.1 4.7 4.7	3.5 3.0 2.8 2.7 2.6	1.8 1.9 1.8 1.6 1.7	1.3 1.3 1.3 1.4 1.8
6 7 8 9 10	2.6 2.6 2.6 2.6 2.7	e3.5 e3.5 e3.6 e3.6	4.1 4.2 4.2 4.1 4.1	3.7 3.6 3.6 3.6 3.6	2.3 2.3 2.3 2.3 2.3	2.0 2.0 2.0 2.1 2.0	3.1 3.2 3.2 3.2 3.0	6.6 6.7 6.3 6.1 6.2	4.7 4.7 4.5 4.5 4.3	2.6 2.5 2.4 2.3 2.4	1.7 1.5 1.5 1.4 1.4	1.7 1.5 1.4 1.4
11 12 13 14 15	2.8 2.7 2.7 2.6 2.7	e3.6 e3.6 3.7 3.7 3.8	4.1 4.1 4.1 4.1 4.1	3.5 3.5 3.3 2.7 2.7	2.3 2.2 2.2 2.2 2.2 2.2	2.0 2.1 2.1 2.0 2.1	3.2 3.3 3.2 3.2 3.2	6.4 5.9 5.3 5.1 5.0	4.4 4.2 3.9 3.9 3.8	2.2 2.1 2.1 2.1 2.2	1.4 1.4 1.4 1.3 1.3	1.5 1.4 1.4 1.3 1.3
16 17 18 19 20	2.7 2.7 2.8 2.7 2.8	e3.9 e3.9 e3.9 e3.9 e4.0	4.1 4.1 4.0 3.9 4.0	2.7 2.6 2.5 2.5 2.5	2.2 2.1 2.0 2.0 2.0	2.0 2.1 2.1 2.2 2.4	3.6 4.2 4.3 3.8 3.6	5.2 5.3 5.5 6.0 6.0	3.7 3.8 3.8 3.6 3.7	2.6 2.5 2.3 2.3 2.5	1.4 1.5 1.5 2.0 2.0	1.3 1.3 1.3 1.3 1.4
21 22 23 24 25	2.8 2.8 2.8 2.8 3.0	e4.0 e4.0 e4.0 e4.1 e4.0	4.1 4.0 3.9 3.9	2.6 2.6 2.6 2.6 2.6	2.0 2.0 2.0 2.0 2.0	2.6 2.7 2.7 2.7 2.8	3.6 3.6 3.3 3.6 3.7	5.9 5.7 5.5 5.3 5.2	4.0 3.7 3.3 3.2 3.2	2.2 2.0 2.1 2.4 2.0	1.6 1.6 1.6 1.5 1.5	1.8 1.8 1.9 1.9 2.0
26 27 28 29 30 31	3.2 4.0 3.5 3.0 3.1 2.9	e4.0 e4.0 e3.9 e3.9 e3.9	3.9 3.9 3.8 3.8 3.8 3.8	2.5 2.5 2.5 2.5 2.5 2.5 2.5	2.0 2.0 2.0 2.0	3.1 2.8 2.5 2.6 2.7 2.8	3.9 4.6 4.6 e4.5 e4.8	5.2 5.1 5.2 5.2 5.1 5.2	3.3 3.2 3.2 3.2 3.4	1.9 1.9 1.8 1.8 1.9	1.4 1.5 1.5 1.4 1.4	2.1 1.9 2.0 2.1 2.3
TOTAL MEAN MAX MIN AC-FT	87.9 2.84 4.0 2.6 174	112.3 3.74 4.1 2.9 223	124.2 4.01 4.2 3.7 246	93.3 3.01 3.8 2.5 185	63.1 2.18 2.5 2.0 125	71.2 2.30 3.1 2.0 141	106.8 3.56 4.8 2.9 212	172.5 5.56 6.7 4.7 342	120.0 4.00 5.2 3.2 238	71.6 2.31 3.5 1.8 142	47.9 1.55 2.0 1.3 95	47.8 1.59 2.3 1.3 95
STATIST	ICS OF MON	NTHLY MEA	N DATA FO	R WATER Y	EARS 1958 -	- 2004, BY W	ATER YEAI	R (WY)				
MEAN MAX (WY) MIN (WY)	3.32 6.12 (1985) 1.72 (2003)	3.04 4.38 (2000) 1.77 (1964)	2.61 4.01 (2004) 1.37 (1964)	2.27 3.01 (2004) 1.39 (1964)	2.09 2.90 (1997) 1.40 (1961)	2.09 3.00 (1986) 1.40 (1973)	3.14 6.19 (1986) 1.44 (1973)	12.8 40.8 (1996) 3.90 (2002)	24.0 58.8 (1995) 2.54 (2002)	9.80 31.2 (1995) 1.51 (2002)	5.15 15.5 (1984) 1.33 (2002)	3.68 7.97 (1984) 1.42 (2002)
SUMMAR	RY STATIST	TICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 195	58 - 2004
LOWEST HIGHEST LOWEST	, MEAN ' ANNUAL M ANNUAL M ' DAILY ME DAILY ME.	MEAN EAN	м	86 1	7.43	27	1,11	<ul><li>3.06</li><li>6.7 May</li><li>1.3 Aug</li></ul>	y 7 g 14 p 13		0.86 Aı	1984 2002 un 18, 1995 ug 18, 2002 ep 1, 2002
MAXIMU MAXIMU ANNUAL	M PEAK FL IM PEAK ST RUNOFF (A	OW AGE AC-FT)	v1	5,380	)	<i>23</i>	1 2,22	9.8 May 2.23 May	y 6		311 Ji	un 17, 1995 un 17, 1995

10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS

From rating curve extended above 65 ft<sup>3</sup>/s.

a From rating curve extended above 65 ft'/s. b Maximum gage height, 3.43 ft, Nov 24, backwater from ice.

## 09050100 TENMILE CREEK BELOW NORTH TENMILE CREEK AT FRISCO, CO

LOCATION.--Lat 39°34′31", long 106°06′36", in SE  $^{1}\!\!/_{4}$  NW  $^{1}\!\!/_{4}$  sec.34, T.5 S., R.78 W., Summit County, Hydrologic Unit 14010002, on right bank 220 ft upstream from bridge on U.S. Highway 6, 160 ft downstream from North Tenmile Creek, and 0.6 mi west of Frisco.

DRAINAGE AREA -- 93 3 mi<sup>2</sup>

PERIOD OF RECORD.--October 1957 to current year. Prior to October 1971, published as "below North Fork, at Frisco." For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09050100

GAGE.—Water-stage recorder with satellite telemetry. Elevation of gage is 9,100 ft above NGVD of 1929, from topographic map. Prior to Apr. 21, 1981 at site 720 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by a few small diversions upstream from station for irrigation and municipal use, and transbasin diversion from Robinson Reservoir, capacity 2,520 acre-ft, in Eagle River Basin.

#### DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY IUN ш AUG SEP 32 33 20 e13 e11 e11 e9 8 33 66 178 141 50 24 21 23 e9.6 e9.2 51 36 e13 e11 e11 70 185 125 3 36 24 34 112 52 23 86 211 e12 e11 e11 34 21 e12 e9.5 33 119 103 24 e11 e11 5 36 21 e9.8 38 264 51 30 e12 e11 e11 152 96 6 34 21 e12 e9.9 40 197 98 50 31 e11 e11 314 34 21 e12 e11 e9.9 45 226 344 89 47 29 e11 8 33 21 50 238 331 45 27 e12 e11 e11 e9.9 Q 33 20 e12 e10 51 237 315 42 26 e11 81 10 33 23 e12 e11 e11 e10 47 261 289 77 39 26 11 37 23 45 298 75 37 e12 e11 e11 e11 240 26 32 30 24 24 21 21 44 206 70 36 12 e12 e11 269 e11 e11 43 13 e12 e11 e11 e11 212 200 67 35 25 23 23 217 33 14 e12 e11 e11 e12 46 189 65 25 e22 224 32 27 50 15 e12 e12 176 81 e11 e11 23 23 23 16 e22 e12 e11 e10 e12 55 181 207 90 31 29 e12 e12 17 e21 e11 e10 e13 60 191 172 108 31 27 27 179 32 18 e21 63 209 e11 e10 e14 98 23 51 28 19 e21 e12 57 e11 e10 e14 261 166 86 22 51 20 e21 e12 e10 56 305 158 89 29 e11 e16 47 2.1 22 e12 e10 e17 56 312 163 82 33 e21 e11 $\frac{1}{22}$ 22 53 75 47 40 e12 e19 e10 e22 289 148 e11 23 22 75 e18 e12 e11 e10 e28 49 260 130 50 38 24 25 20 47 79 44 e20 e12 e10 41 17 e18 e12 e11 e10 36 48 228 116 70 41 42 26 16 e10 38 48 219 119 65 37 42 e16 e11 e11 35 20 e10 37 54 218 114 65 40 e16 e11 e11 21 23 117 28 33 62 e16 e11 e11 240 29 e15 e11 e11 e9.8 36 67 251 123 54 32 38 22 29 30 31 208 150 52 41 e15 e11 e11 71 20 26 30 53 31 185 e11 e11 2,563 TOTAL 826 603 368 341 304.6 566.6 1,481 6,600 5,941 1,270 920 20.1 24 49.4 71 82.7 MEAN 26.6 11.9 11.0 10.5 18.3 213 198 41.0 30.7 37 344 312 42 MAX 13 11 11 38 141 52 15 9.8 9.2 26 23 114 52 MIN 16 11 11 66 AC-FT 1,200 730 676 604 1,120 2,940 13,090 11,780 5,080 2,520 1,820 1.640 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2004, BY WATER YEAR (WY) MEAN 32.3 25.0 19.8 17.3 188 17.6 19.6 39.1 256 467 72.8 44.4 MAX 77.7 76.2 34.5 34.0 33.8 46.0 95.0 493 818 607 251 127 (1994)(1983) 9.55 (1984)(WY) (1985)(1985)(1994)(1983)(1962)(1996)(1997)(1995)(1984)9.83 9.20 96.5 40.4MIN 13.0 11.7 11.0 13.7 138 25.3 21.8 (1978)(1978)(1978)(1963)(1978)(1976)(1973)(1995)(2002)(2002)(1977)(1977)(WY) SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1958 - 2004 ANNUAL TOTAL 40,980 21,784.2 ANNUAL MEAN 59.5 112 100 HIGHEST ANNUAL MEAN 183 1984 LOWEST ANNUAL MEAN HIGHEST DAILY MEAN 47.0 1977 1,250 344 Jun 17, 1965 Jun 7 1,480 Jun 1 LOWEST DAILY MEAN Dec 26 e9.2 Mar Oct 14, 1994 e11 ANNUAL SEVEN-DAY MINIMUM Feb 28 7.9 Mar 8, 1960 e11 e9.6 MAXIMUM PEAK FLOW 442 Jun a1,910 Jun 16, 1965 MAXIMUM PEAK STAGE 3.34 6.15 Jun 7 Jun 16, 1965 ANNUAL RUNOFF (AC-FT) 81,280 43.210 72.460 10 PERCENT EXCEEDS 354 310 190 50 PERCENT EXCEEDS 32 30 31

11

14

90 PERCENT EXCEEDS

16

e Estimated.

a From rating curve extended above 750 ft<sup>3</sup>/s.

## 09050700 BLUE RIVER BELOW DILLON, CO

 $LOCATION.--Lat~39°37'32", long~106°03'57", in~SE^{1}_{4}SE^{1}_{4}~sec.12,~T.5~S.,~R.78~W.,~Summit~County,~Hydrologic~Unit~14010002,~on~right~bank~0.3~mi~downstream~from~Dillon~Dam,~0.1~mi~upstream~from~Straight~Creek,~and~1.1~mi~west~of~Dillon.$ 

DRAINAGE AREA.--335 mi<sup>2</sup>.

PERIOD OF RECORD.--January 1960 to current year. Statistical summary computed for 1963 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09050700

GAGE.--Water-stage recorder with satellite telemetry, and concrete control. Elevation of gage is 8,760 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Flow regulated since Sept. 3, 1963, by Dillon Reservoir, 0.3 mi upstream (station 09050600). Natural flow of stream affected by transmountain diversions, transbasin diversions, and diversions upstream from station for irrigation of about 400 acres of hay meadows.

stream	i arrected by	ıransmountan	i diversions, t	ransbasin dive			ET PER SEC		ation of abou	it 400 acres of	nay meadow:	S.
				WATER		TOBER 2003 LY MEAN V	TO SEPTEM ALUES	1BER 2004				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	113 113 113 113 111	93 93 93 93 93	75 74 72 72 72	72 72 72 72 72 72	72 72 72 72 72 72	72 72 72 72 72	48 48 49 48 49	48 48 48 48	50 50 50 50 50	51 50 50 50 50	107 107 107 107 107	77 122 389 489 494
6 7 8 9 10	110 110 110 110 110	83 52 50 50 50	72 72 72 72 72 73	72 72 72 72 72 72	72 72 72 72 72 72	72 72 72 72 72 72	49 49 50 50 48	48 48 51 52 52	50 50 50 50 50	50 50 50 50 50	107 107 107 107 107	430 180 80 80 77
11 12 13 14 15	110 110 110 110 101	50 50 52 52 53	72 72 72 72 72 72	72 72 72 72 72 72	72 72 72 72 72 72	72 72 72 72 72 80	48 48 48 48	51 50 50 50 50	51 51 50 50 50	50 50 50 50 56	107 86 72 72 72	77 77 77 77 77
16 17 18 19 20	93 93 93 93 93	52 52 65 75 75	72 72 72 72 72	72 72 72 72 72 72	72 72 72 72 72 72	90 90 74 59 50	48 48 48 48	50 50 50 50 50	50 50 50 51 51	74 93 110 110 97	72 72 72 72 72 86	77 77 77 77 77
21 22 23 24 25	93 93 93 93 93	75 75 75 75 75	72 72 72 72 72 72	72 72 72 72 72 72	72 72 72 72 72 72	50 50 50 50 50	48 48 48 48	50 50 50 50 50	51 50 50 50 50	75 75 96 110 107	106 106 106 95 77	70 65 65 65 65
26 27 28 29 30 31	93 93 93 93 93 93	75 75 75 75 75	72 72 72 72 72 72 72	72 72 72 72 72 72 72	72 72 72 72 72	50 51 52 51 50 50	48 49 48 48 48	50 50 50 50 50 50	50 50 50 51 52	110 110 109 110 107 107	77 77 77 77 77 77	65 63 61 61 61
TOTAL MEAN MAX MIN AC-FT	3,142 101 113 93 6,230	2,076 69.2 93 50 4,120	2,238 72.2 75 72 4,440	2,232 72.0 72 72 72 4,430	2,088 72.0 72 72 72 4,140	2,005 64.7 90 50 3,980	1,449 48.3 50 48 2,870	1,543 49.8 52 48 3,060	1,508 50.3 52 50 2,990	2,357 76.0 110 50 4,680	2,805 90.5 107 72 5,560	3,829 128 494 61 7,590
				OR WATER YE				, ,	(70		240	4.55
MEAN MAX (WY) MIN (WY)	119 305 (2000) 0.00 (1964)	98.4 268 (1985) 23.2 (1964)	84.9 193 (1985) 44.6 (1989)	76.8 158 (1966) 31.0 (1984)	79.0 155 (1997) 47.6 (1986)	82.9 269 (1996) 48.6 (1986)	122 742 (1996) 39.3 (1965)	295 1,101 (1984) 24.0 (1965)	678 1,813 (1984) 32.3 (1965)	417 1,476 (1984) 51.5 (1981)	240 999 (1984) 51.7 (1981)	157 348 (1983) 18.6 (1963)
SUMMA	RY STATIST	TICS		FOR 2003 CA	ALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 1963	3 - 2004
ANNUAL HIGHES' LOWEST HIGHES' LOWEST ANNUAL MAXIMI MAXIMI ANNUAL 10 PERC	Γ ANNUAL I C ANNUAL N Γ DAILY ME C DAILY ME	MEAN EAN AN AY MINIMUN LOW FAGE AC-FT) DS	М	30,171 82. 395 50 50 59,840 113 75	7 Jul Mar Mar	16	49 6- 54,09 10	74.5  94 Sep 48 Ap 48 Ap 48 Sep 2.21 Sep	5	1,9 2,0 148,	a0.00 Se 0.00 Se 010 Ma b3.88 Ma	1984 1981 1981 1984 1963 1994, 1963 1995, 1984 1995, 1984

a Also occurred Sept 5 to Nov 29, 1963.

b Maximum gage height for period of record, 3.95 ft, Jun 22, 1983.

## 09051050 STRAIGHT CREEK BELOW LASKEY GULCH, NEAR DILLON, CO

 $LOCATION.--Lat\ 39^{\circ}38'23'',\ long\ 106^{\circ}02'23'',\ in\ SW^{1}_{4}SW^{1}_{4}\ sec.5,\ T.5\ S.,\ R.77\ W.,\ Summit\ County,\ Hydrologic\ Unit\ 14010002,\ on\ right\ bank,\ 120\ ft\ upstream\ from\ culverts\ on\ Deer\ Trail\ Drive,\ in\ the\ community\ of\ Dillon\ Valley,\ 0.9\ mi\ north\ of\ Dillon,\ 1.1\ mi\ downstream\ of\ Laskey\ Gulch,\ and\ 1.8\ mi\ upstream\ from\ mouth.$ 

DRAINAGE AREA.--18.3 mi<sup>2</sup>.

 $PERIOD\ OF\ RECORD. -- October\ 1986\ to\ current\ year.\ For\ a\ complete\ listing\ of\ historical\ data\ available\ for\ this\ site,\ see\ http://waterdata.usgs.gov/co/nwis/inventory/\\ ?site\_no=09051050$ 

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,070 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversion upstream from station for municipal purposes downstream from station.

					R YEAR OC		ET PER SECO TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	8.1 8.6 9.3 8.3 8.0	7.1 7.2 7.5 6.3 6.9	e4.6 e4.7 e4.8 e4.8 e4.8	e4.5 e4.5 e4.5 e4.4	e4.2 e4.2 e4.2 e4.2 e4.2	e4.0 e4.0 e4.0 e4.0 e4.0	e5.9 e6.5 e6.5 e6.7 e6.8	7.8 7.2 6.8 8.7	23 24 25 27 31	19 18 17 15	6.2 6.9 7.0 6.2 7.0	6.2 6.0 5.7 6.3 7.9
6 7 8 9 10	7.9 7.9 7.9 7.5 7.7	7.4 7.4 7.1 7.5 7.1	e4.7 e4.7 e4.7 e4.7 e4.7	e4.4 e4.4 e4.4 e4.4	e4.2 e4.2 e4.2 e4.2 e4.2	e4.0 e4.0 e4.0 e4.1	e6.9 e6.9 7.3 7.8 6.7	18 21 22 22 24	33 35 38 40 37	13 13 12 11	6.0 5.1 4.5 4.2 4.1	7.7 6.7 6.4 6.0 6.2
11 12 13 14 15	9.2 8.7 8.9 8.2 8.5	7.1 6.7 7.4 7.1 7.0	e4.7 e4.7 e4.7 e4.7 e4.7	e4.4 e4.4 e4.4 e4.4	e4.2 e4.2 e4.2 e4.1 e4.1	e4.1 e4.1 e4.1 e4.1	6.6 7.3 7.0 7.2 7.2	25 23 19 17 16	34 30 29 29 28	9.9 9.6 9.6 9.0	4.0 3.8 3.9 3.8 3.6	7.0 5.8 6.1 5.6 5.4
16 17 18 19 20	8.3 8.1 8.4 8.2 8.0	6.3 6.3 5.8 5.9 5.9	e4.7 e4.7 e4.7 e4.7 e4.7	e4.3 e4.3 e4.2 e4.2 e4.2	e4.1 e4.1 e4.1 e4.1 e4.1	e4.3 e4.4 e4.4 e4.6 e4.7	7.9 8.5 8.8 7.7 7.6	15 12 13 17 24	27 27 27 25 24	13 15 16 14 12	3.8 4.3 6.2 9.0	5.9 6.3 6.0 6.3 6.9
21 22 23 24 25	7.7 7.6 7.7 7.4 6.7	e5.5 e5.5 e5.4 e5.4 e5.4	e4.7 e4.6 e4.6 e4.6	e4.2 e4.2 e4.2 e4.2 e4.2	e4.1 e4.1 e4.1 e4.1 e4.1	e4.7 e4.6 e4.3 e4.3 e4.5	7.7 7.2 7.2 6.6 6.9	28 27 26 27 25	26 23 20 19	8.9 8.9 12 11 9.2	7.9 7.3 7.3 7.0 6.5	8.9 8.3 8.5 8.8 9.1
26 27 28 29 30 31	7.1 7.8 7.6 7.3 7.2 7.1	e5.3 e5.1 e4.6 e4.5 e4.6	e4.6 e4.5 e4.5 e4.5 e4.5 e4.5	e4.2 e4.2 e4.2 e4.2 e4.2 e4.2	e4.1 e4.0 e3.9 e4.0	e4.6 e4.7 e4.9 e5.1 e5.2 e5.5	6.9 7.9 8.2 8.2 8.5	26 26 27 27 27 24 23	19 18 18 19 21	9.1 8.9 8.3 8.0 7.8 7.0	6.6 6.6 6.5 6.4 6.4	8.5 7.8 7.9 8.8 9.9
TOTAL MEAN MAX MIN AC-FT	246.9 7.96 9.3 6.7 490	188.3 6.28 7.5 4.5 373	144.5 4.66 4.8 4.5 287	133.7 4.31 4.5 4.2 265	119.8 4.13 4.2 3.9 238	135.4 4.37 5.5 4.0 269	219.1 7.30 8.8 5.9 435	617.5 19.9 28 6.8 1,220	795 26.5 40 18 1,580	361.2 11.7 19 7.0 716	184.7 5.96 10 3.6 366	212.9 7.10 9.9 5.4 422
MEAN MAX (WY) MIN (WY)	7.14 12.2 (1996) 2.89 (2003)	5.73 8.77 (1996) 3.80 (2003)	4.50 6.99 (1996) 3.20 (2001)	3.90 5.54 (1996) 2.43 (1992)	3.77 6.40 (1996) 2.39 (1992)	3.91 7.32 (1996) 2.33 (2003)	6.39 9.99 (1989) 3.55 (1995)	26.0 63.1 (1996) 9.45 (1995)	61.6 119 (1996) 10.0 (2002)	28.4 89.0 (1995) 3.45 (2002)	12.1 23.6 (1995) 3.03 (2002)	8.05 13.3 (1995) 2.31 (2002)
SUMMAI	RY STATIST	TCS		FOR 2003 C	CALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 198	7 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE 50 PERCE	. MEAN T ANNUAL M T ANNUAL M T DAILY ME T DAILY ME	MEAN AN AN Y MINIMUN OW 'FAGE AC-FT) DS DS	М	148 e2 e2 11,930 56	5.5 3 Jun 2.0 Mar 2.1 Mar	9	6,66	9.18 40 Jun 3.6 Aug 3.9 Aug 48 Jun 4.76 Jun		a-	1.3 Au 1.6 Au 416 Ju	1996 2002 an 17, 1995 ag 20, 2002 ag 20, 2002 an 17, 1995 an 17, 1995

e Estimated.

a From rating curve extended above 150 ft<sup>3</sup>/s.

## 09057500 BLUE RIVER BELOW GREEN MOUNTAIN RESERVOIR, CO

 $LOCATION.--Lat~39^{\circ}52'49", long~106^{\circ}20'00", in~SW^{1}_{4}NE^{1}_{4}~sec.15, T.2~S., R.80~W., Summit~County, Hydrologic~Unit~14010002, on left bank~0.3~mi~upstream~from~Elliott~Creek,~0.3~mi~downstream~from~Green~Mountain~Dam,~and~13~mi~southeast~of~Kremmling.$ 

DRAINAGE AREA.--599 mi<sup>2</sup>, includes 15.3 mi<sup>2</sup> of Elliott Creek above diversion for Elliott Creek feeder canal.

PERIOD OF RECORD.—October 1937 to current year. Prior to October 1943, published as Blue River below Green Mountain Reservoir, near Kremmling. Statistical summary computed for 1943 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09057500

REVISED RECORDS.--WSP 2124: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 7,682.66 ft above NGVD of 1929, (levels by U.S. Bureau of Reclamation). Prior to Oct. 1, 1951, water-stage recorder at site 3.7 mi downstream at different datum.

REMARKS.--Records good except for estimated daily values, which are fair. Flow regulated by Green Mountain Reservoir since November 1942 (station 09057000). Diversions for irrigation of about 5,000 acres upstream from station. Transmountain diversions upstream from station (see elsewhere in this report).

					R YEAR OC		ET PER SECO TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	881 886 884 883	236 217 282 260 112	190 154 161 160 142	182 190 199 200 215	170 193 209 211 209	177 200 201 202 201	78 78 78 79 80	66 66 64 63 63	57 57 58 58 58	56 56 56 55 56	515 479 432 492 519	504 533 552 554 553
6 7 8 9 10	881 879 878 885 880	114 115 114 115 117	131 136 138 156 180	219 220 217 197 93	208 209 208 208 211	203 200 199 199 184	80 80 61 52 52	63 63 63 63	58 58 58 57 57	55 56 56 56 56	521 519 525 534 592	553 553 527 500 493
11 12 13 14 15	877 875 874 874 876	116 111 114 113 114	180 181 182 181 182	99 157 205 206 209	212 205 203 203 202	160 168 165 165 139	52 52 51 51 51	64 64 64 64	57 57 57 57 57	56 57 95 248 362	556 551 541 551 548	476 476 478 476 495
16 17 18 19 20	871 871 867 869 880	113 175 223 218 216	204 224 225 223 225	208 209 208 211 190	202 175 154 153 153	106 98 100 88 49	51 51 51 51 51	64 64 64 64	57 57 e57 e57 e57	255 289 226 156 252	551 554 554 552 554	514 512 511 500 420
21 22 23 24 25	876 873 871 870 800	214 213 214 216 217	225 205 184 185 180	175 178 177 181 169	152 156 155 154 e153	50 50 50 69 79	51 50 50 50 51	64 65 65 65 61	e57 e57 57 57 56	377 365 371 377 374	506 457 456 430 401	290 107 106 95 99
26 27 28 29 30 31	745 743 741 738 773 594	216 217 216 217 215	185 184 180 184 183 182	165 171 166 169 173 171	150 148 157 157 	78 79 79 78 78 78	50 50 54 55 62	57 57 57 58 58 58	56 56 56 56 57	371 371 368 406 459 496	402 399 398 397 417 479	92 103 194 270 292
TOTAL MEAN MAX MIN AC-FT	26,176 844 886 594 51,920	5,350 178 282 111 10,610	5,632 182 225 131 11,170	5,729 185 220 93 11,360	5,280 182 212 148 10,470	3,972 128 203 49 7,880	1,753 58.4 80 50 3,480	1,942 62.6 66 57 3,850	1,711 57.0 58 56 3,390	6,889 222 496 55 13,660	15,382 496 592 397 30,510	11,828 394 554 92 23,460
MEAN MAX (WY) MIN (WY)	391 1,258 (1963) 108 (2003)	290 800 (1963) 82.5 (1943)	305 580 (1947) 0.72 (1943)	300 566 (1948) 0.46 (1943)	EARS 1943 - 288 559 (1962) 0.19 (1943)	- 2004, BY W 309 864 (1962) 0.61 (1943)	7ATER YEAF 378 1,286 (1996) 47.2 (1943)	498 1,557 (1952) 53.5 (2003)	710 2,134 (1984) 54.4 (1981)	773 2,536 (1984) 131 (1981)	617 1,547 (1984) 270 (1964)	497 846 (1990) 70.0 (2002)
SUMMAR	RY STATIST	TICS		FOR 2003 C	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 19	43 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE	MEAN ANNUAL I ANNUAL I DAILY ME SEVEN-DA M PEAK FI M PEAK ST RUNOFF (A ENT EXCEE	MEAN EAN AN AY MINIMUI LOW TAGE AC-FT) DS	М		Oct 2.2 Jun 2.9 May	2		60 Oc 66 Oc 69 Mai 60 Apr 61 Oc 61.12 Oc 64		4,0 4,0 324,0 8	,b0.00 I 0.00 . 040 10.85 000 333	1984 1964 Jul 12, 1995 Dec 6, 1942 Jan 5, 1943 Jul 12, 1995 Jul 12, 1995
	ENT EXCEE ENT EXCEE			57				56			360 .07	

e Estimated.

No flow at times in 1943.

b Minimum daily discharge (prior to Green Mountain Reservoir), 80 ft<sup>3</sup>/s, Feb 18-24, 1938, Feb 18-19, 1940.

## 09058000 COLORADO RIVER NEAR KREMMLING, CO

LOCATION.--Lat  $40^{\circ}02'12''$ , long  $106^{\circ}26'22''$ , in NE $^{1}_{4}$ SW $^{1}_{4}$  sec.23, T.1 N., R.81 W., Grand County, Hydrologic Unit 14010001, on right bank at upstream end of Gore Canyon, 3.0 mi southwest of Kremmling and 3.8 mi downstream from Blue River.

DRAINAGE AREA.--2,382 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1904 to September 1918 (published as Grand River near Kremmling), October 1961 to September 1970, October 1971 to current year. Statistical summary computed for 1962 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09058000

REVISED RECORDS.--WSP 2124: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,320 ft above NGVD of 1929, from topographic map. See WSP 1313 for history of changes prior to Oct. 1, 1961.

REMARKS.--No estimated daily discharges. Records good except those for Dec. 1 to March 1, which are fair. Natural flow of stream affected by transmountain diversions, storage reservoirs, diversions for irrigation of about 40,000 acres upstream from station, and return flow from irrigated areas.

					YEAR OC		ET PER SECC TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1,180 1,180 1,220 1,230 1,240	522 490 506 666 458	470 422 412 411 429	387 396 395 401 351	370 380 407 417 412	357 386 391 396 392	322 324 311 321 314	285 301 293 276 257	265 240 242 348 334	373 435 420 354 330	845 870 902 948 972	1,010 1,020 1,050 1,060 1,080
6 7 8 9 10	1,240 1,230 1,220 1,220 1,220	383 376 371 363 357	383 391 390 399 391	378 428 432 417 334	416 400 417 414 386	391 393 395 403 421	329 335 334 309 310	249 266 292 287 296	298 283 287 290 298	329 365 334 305 346	971 969 961 955 1,060	1,080 1,080 1,030 987 990
11 12 13 14 15	1,230 1,230 1,230 1,190 1,180	367 370 359 357 362	438 433 436 454 426	303 301 383 376 383	396 359 374 367 385	397 405 417 407 406	296 280 278 269 266	271 276 293 339 376	298 298 315 326 308	385 362 336 394 629	986 998 990 1,020 1,000	970 968 974 963 978
16 17 18 19 20	1,180 1,160 1,160 1,160 1,170	355 357 426 428 436	419 411 428 440 421	409 401 386 381 392	419 407 363 362 363	370 379 401 420 436	269 269 277 289 282	322 290 247 232 227	299 307 354 441 458	618 670 903 782 794	1,010 1,050 1,060 1,110 1,160	1,010 977 950 955 918
21 22 23 24 25	1,140 1,130 1,130 1,120 1,090	442 442 363 447 438	450 461 370 350 363	360 338 334 354 353	359 381 378 362 365	430 414 413 399 433	282 282 276 272 268	224 231 246 222 224	414 397 372 348 306	847 796 837 896 863	1,110 991 952 961 946	818 616 521 511 486
26 27 28 29 30 31	987 979 976 969 984 1,030	458 445 456 478 483	376 377 378 358 392 387	335 345 374 379 394 387	349 356 360 355	430 400 365 320 300 306	260 251 251 251 250	231 214 246 255 300 308	318 341 350 357 343	852 830 816 814 854 859	964 977 970 935 970 1,020	487 488 557 685 809
TOTAL MEAN MAX MIN AC-FT	35,605 1,149 1,240 969 70,620	12,761 425 666 355 25,310	12,666 409 470 350 25,120	11,587 374 432 301 22,980	11,079 382 419 349 21,980	12,173 393 436 300 24,150	8,627 288 335 250 17,110	8,376 270 376 214 16,610	9,835 328 458 240 19,510	18,728 604 903 305 37,150	30,633 988 1,160 845 60,760	26,028 868 1,080 486 51,630
				OR WATER YE		,		` ′	2.044	1.500	1.002	972
MEAN MAX (WY) MIN (WY)	766 1,413 (1963) 450 (2003)	634 1,030 (1985) 352 (1978)	565 1,067 (1985) 277 (1964)	547 1,000 (1985) 278 (1964)	538 1,025 (1962) 294 (1964)	636 1,394 (1962) 331 (1977)	982 3,297 (1962) 288 (2004)	1,778 6,200 (1984) 270 (2004)	2,044 7,160 (1984) 328 (2004)	1,509 5,840 (1983) 539 (1963)	1,083 2,321 (1984) 630 (1963)	872 1,366 (1984) 461 (2002)
SUMMAR	RY STATIST	TICS		FOR 2003 CA	LENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 19	62 - 2004
LOWEST	, MEAN ` ANNUAL N ANNUAL M	1EAN		238,051 652	Ţ		198,09 54	1	-	2,3	998 378 523	1984 2002
LOWEST ANNUAL MAXIMU	DAILY ME DAILY ME SEVEN-DA M PEAK FL M PEAK ST	AN Y MINIMUN OW	Л	2,470 320 354	Jun Apr Apr	21	1,24 21 22 1,26	4 May 27 May	27 21 6		200 M 225 M 500 M	fay 26, 1984 fay 11, 2002 fay 8, 2002 fay 26, 1984 fay 26, 1984
10 PERCE 50 PERCE	RUNOFF (A ENT EXCEEI ENT EXCEEI ENT EXCEEI	DS DS		472,200 1,150 461 370			392,90 1,04 39 28	00 10 06		17		

a Maximum daily discharge for period of record, 20,000 ft<sup>3</sup>/s, Jun 7, 1912.
 b Minimum discharge observed for period of record, 166 ft<sup>3</sup>/s, Dec 19, 1907.
 c Maximum discharge observed for period of record, 21,500 ft<sup>3</sup>/s, Jun 7, 1912, gage height, 21.8 ft, datum then in use, from rating curve extended above 14,000 ft<sup>3</sup>/s.

## 09058500 PINEY RIVER BELOW PINEY LAKE NEAR MINTURN, CO

LOCATION.--Lat 39°42'29", long 106°25'34", Eagle County, Hydrologic Unit 14010001, on left bank 1.4 mi upstream from Dickson Creek, 2.0 mi downstream from Piney Lake, and 8.5 mi north of Minturn.

DRAINAGE AREA.--13.0 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1947 to September 1954, October 1963 to September 2004 (discontinued). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09058500

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Datum of gage is 9,145.25 ft above NGVD of 1929, levels by U.S. Bureau of Reclamation. Prior to October 1963, water-stage recorder at site 15 ft upstream at present datum.

REMARKS.--Records fair except for the period May 5-12 and estimated daily discharges, which are poor. No diversions upstream from station.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES  DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP													
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
5.4 5.7 6.3 5.9 5.8	3.2 e3.3 e3.3 e3.2 e3.2	e3.3 e3.4 e3.3 e3.2 e3.2	e3.2 e3.2 e3.1 e3.1 e3.2	e3.0 e3.0 e3.0 e3.0 e3.0	e2.9 e2.9 e2.9 e2.9 e2.9	e17 e20 e21 e21 e23	22 22 29 44 60	28 28 35 57 79	50 46 39 33 30	e10 e10 e9.0 e8.0 6.8	4.5 4.3 4.1 4.4 7.7		
5.5 5.1 4.8 4.7 4.6	e3.2 e3.3 e3.4 e3.3 e3.4	e3.3 e3.4 e3.4 e3.3 e3.4	e3.2 e3.2 e3.2 e3.2 e3.1	e2.9 e2.9 e2.9 e2.9 e2.9	e2.9 e3.0 e3.3 e3.2 e3.7	e25 e25 25 24 22	89 105 109 94 95	95 113 122 102 93	27 27 27 26 24	6.8 6.4 5.9 5.5 5.4	10 18 17 13		
6.0 6.1 5.4 4.8 4.5	e3.4 e3.3 e3.5 e3.3 e3.5	e3.4 e3.4 e3.4 e3.4	e3.2 e3.2 e3.0 e3.0 e3.0	e2.8 e2.8 e2.9 e2.9	e3.7 e4.0 e4.3 e4.3	19 17 18 22 22	115 80 49 34 28	67 49 44 61 75	24 21 19 19 22	5.0 4.7 4.5 4.3 4.2	11 9.4 8.1 7.3 6.7		
4.4 4.3 4.2 4.1 4.0	e3.3 e3.4 e3.2 e3.2 e3.2	e3.4 e3.5 e3.3 e3.3	e3.1 e3.1 e3.1 e3.1	e2.9 e2.9 e2.9 e2.9 e2.9	e3.9 e3.8 e4.1 e4.9 e6.4	24 29 28 22 20	27 28 30 50 84	70 68 67 66 64	22 19 18 17 19	4.1 4.2 5.2 23 21	6.2 5.8 5.5 5.7 9.0		
3.9 3.8 3.7 3.7 e3.5	e3.4 e3.3 e3.2 e3.1 e3.1	e3.3 e3.4 e3.3 e3.3	e3.1 e3.1 e3.0 e2.9 e2.8	e2.9 e2.9 e2.9 e2.9 e2.9	e8.1 e9.9 e11 e12 e15	19 17 15 14 15	93 89 58 57 46	63 50 41 45 46	17 15 15 22 16	17 13 11 9.3 7.6	12 15 14 14 19		
e3.4 3.2 3.3 3.4 3.4 3.2	e3.1 e3.1 e3.2 e3.2	e3.3 e3.3 e3.2 e3.2 e3.2	e2.8 e2.9 e3.0 e3.0 e3.0 e2.8	e2.9 e2.9 e2.9 e2.9	e18 e18 e12 e11 e10 e13	14 18 23 24 27	39 49 54 85 51 34	43 40 38 41 51	13 12 e12 e13 e12 e12	6.7 6.3 6.3 5.7 5.3 4.9	21 20 18 16 22		
140.1 4.52 6.3 3.2 278	97.9 3.26 3.5 3.1 194	103.0 3.32 3.5 3.2 204	95.0 3.06 3.2 2.8 188	84.3 2.91 3.0 2.8 167	212.1 6.84 18 2.9 421	630 21.0 29 14 1,250	1,849 59.6 115 22 3,670	1,841 61.4 122 28 3,650	688 22.2 50 12 1,360	247.1 7.97 23 4.1 490	339.7 11.3 22 4.1 674		
							, ,	100	54.0	14.2	7.50		
15.1 (1985) 1.71 (1980)	8.82 (1985) 1.23 (1980)	6.41 (1999) 1.04 (1980)	4.00 (1952) 0.79 (1975)	4.01 (1996) 0.83 (1975)	2.08 6.84 (2004) 0.84 (1975)	23.0 (1952) 2.12 (1973)	132 (2003) 26.6 (1968)	202 (1952) 40.9 (2002)	146 (1995) 5.82 (2002)	14.3 45.3 (1984) 3.69 (1954)	7.58 14.8 (1984) 2.16 (1974)		
Y STATIST	ICS		FOR 2003 C	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 194	8 - 2004		
ANNUAL M DAILY ME DAILY ME SEVEN-DA M PEAK FL M PEAK ST RUNOFF (A NT EXCEEI NT EXCEEI	IEAN AN AN Y MINIMUN OW 'AGE AC-FT) DS DS	Л	422 e2 22,210	0.7 2. Jun 2.1 Jan 2.1 Jan 3.	8	12,55 4	7.3  22 Jur 22.8 Jar 2.9 Fet 66 Jur 4.36 Jur 60 199 5.7	1 25 0 7 1 8	5	0.40 O 0.62 Ms 560 Ju a5.12 Ju 990 84 5.0	1984 2002 In 1, 2003 ct 6, 1975 ar 28, 1975 In 8, 1985 In 8, 1985		
	5.4 5.7 6.3 5.9 5.8 5.5 5.1 4.8 4.7 4.6 6.0 6.1 5.4 4.8 4.5 4.4 4.3 4.2 4.1 4.0 3.9 3.8 3.7 3.7 3.7 3.5 63.4 3.2 3.4 3.2 140.1 4.52 6.3 3.4 3.2 278 CS OF MON 6.25 1.71 (1980) Y STATIST TOTAL MEAN ANNUAL M ANNUAL	5.4 3.2 5.7 e3.3 6.3 e3.3 5.9 e3.2 5.8 e3.2 5.5 e3.2 5.1 e3.3 4.8 e3.4 4.7 e3.3 4.6 e3.4 6.0 e3.4 6.1 e3.3 5.4 e3.5 4.8 e3.3 4.5 e3.5 4.4 e3.3 4.5 e3.5 4.4 e3.3 4.1 e3.2 4.0 e3.2 3.9 e3.4 3.8 e3.3 3.7 e3.2 3.7 e3.1 e3.4 e3.1 3.2 e3.1 3.3 e3.1 e3.4 e3.2 3.1 e3.2 e3.1 c3.5 e3.1 e3.4 e3.2 3.7 e3.1 e3.5 e3.1 e3.4 e3.2 3.1 3.2 e3.1 3.3 e3.1 3.4 e3.2 3.2 e3.1 3.4 e3.2 3.2 e3.1 3.1 278 194 CS OF MONTHLY MEA 6.25 4.07 15.1 8.82 (1985) (1985) 1.71 1.23 (1980) (1980)  Y STATISTICS TOTAL MEAN ANNUAL MEAN ANNUAL MEAN ANNUAL MEAN ANNUAL MEAN DAILY MEAN DAILY MEAN DAILY MEAN DAILY MEAN DAILY MEAN DAILY MEAN	5.4 3.2 e3.3 c3.4 c3.4 c3.5 e3.4 e3.4 e3.4 e3.4 e3.4 e3.4 e3.4 e3.4	OCT NOV DEC JAN  5.4 3.2 e3.3 e3.4 e3.2 5.7 e3.3 e3.4 e3.2 e3.1 5.9 e3.2 e3.2 e3.2 e3.1 5.8 e3.2 e3.2 e3.2 e3.2 5.5 e3.2 e3.3 e3.4 e3.2 5.1 e3.3 e3.4 e3.2 4.8 e3.4 e3.4 e3.4 e3.2 4.7 e3.3 e3.3 e3.3 e3.2 4.6 e3.4 e3.4 e3.4 e3.1 6.0 e3.4 e3.4 e3.4 e3.1 6.0 e3.4 e3.5 e3.4 e3.0 4.8 e3.3 e3.3 e3.3 e3.2 5.4 e3.5 e3.4 e3.0 6.1 e3.3 e3.3 e3.3 e3.2 4.6 e3.4 e3.5 e3.4 e3.0 4.8 e3.3 e3.4 e3.0 4.8 e3.3 e3.4 e3.0 4.9 e3.5 e3.4 e3.0 4.1 e3.2 e3.3 e3.1 4.2 e3.2 e3.3 e3.1 4.3 e3.4 e3.5 e3.1 4.2 e3.2 e3.3 e3.1 4.1 e3.2 e3.3 e3.1 4.1 e3.2 e3.3 e3.1 3.9 e3.4 e3.3 e3.1 3.9 e3.4 e3.3 e3.4 3.1 e3.3 e2.9 3.3 e3.1 e3.3 e2.9 6.3 a.5 e3.1 e3.3 e2.8 6.3 e3.1 e3.3 e2.9 6.3 a.5 e3.1 e3.3 e2.8 6.3 e3.1 e3.3 e2.9 6.3 a.5 e3.1 e3.3 e2.9 6.3 a.5 e3.1 e3.3 e2.9 6.3 a.5 e3.1 e3.3 e2.8 6.4 e3.1 e3.3 e2.8 6.5 e3.4 e3.1 e3.3 e2.8 6.6 e3.4 e3.1 e3.3 e2.9 6.7 e3.1 e3.3 e2.9 6.8 e3.4 e3.1 e3.3 e2.9 6.8 e3.4 e3.1 e3.3 e2.9 6.9 e3.4 e3.1 e3.9 e2.8 6.9 e3.4 e3.1 e3.9 e3.9 e3.1 6.9 e3.4 e3.1 e3.9 e3.9 e3.1 6.0 e3.4 e3.1 e3.9 e3.9 e3.1 6.0 e3.4 e3.1 e3.9 e3.1 6.0 e3.2 e3.2 e3.0 e3.1 6.0 e3.2	OCT NOV DEC JAN FEB  5.4 3.2 e3.3 e3.2 e3.0 5.7 e3.3 e3.4 e3.2 e3.0 5.9 e3.2 e3.2 e3.2 e3.1 e3.0 5.8 e3.2 e3.2 e3.2 e3.2 e3.0 5.5 e3.2 e3.2 e3.2 e3.2 e2.9 5.1 e3.3 e3.4 e3.2 e2.9 4.8 e3.4 e3.4 e3.2 e2.9 4.7 e3.3 e3.4 e3.4 e3.2 e2.9 4.6 e3.4 e3.4 e3.4 e3.1 e2.9 6.0 e3.4 e3.4 e3.4 e3.1 e2.9 6.1 e3.5 e3.4 e3.0 e2.8 6.1 e3.5 e3.4 e3.0 e2.8 4.8 e3.3 e3.4 e3.0 e2.8 6.1 e3.5 e3.4 e3.0 e2.8 4.8 e3.3 e3.3 e3.1 e2.9 4.6 c3.4 e3.5 e3.4 e3.0 e2.9 4.7 e3.3 e3.3 e3.1 e2.9 4.8 e3.5 e3.4 e3.0 e2.9 4.1 e3.5 e3.4 e3.0 e2.9 4.2 e3.5 e3.4 e3.0 e2.9 4.3 e3.4 e3.5 e3.1 e2.9 4.4 e3.3 e3.4 e3.1 e2.9 4.3 e3.4 e3.5 e3.1 e2.9 4.3 e3.4 e3.5 e3.1 e2.9 4.1 e3.2 e3.3 e3.1 e2.9 4.1 e3.2 e3.3 e3.1 e2.9 4.0 e3.2 e3.3 e3.1 e2.9 3.9 e3.4 e3.3 e3.1 e2.9 3.9 e3.4 e3.3 e3.4 e3.0 e2.9 3.8 e3.3 e3.4 e3.0 e2.9 3.8 e3.3 e3.1 e2.9 3.9 e3.4 e3.3 e3.4 e3.0 e2.9 3.1 e3.9 e2.9 6.3 e2.9 e2.9 6.3 e3.9 e3.9 e3.9 e2.9 6.3 e3.9 e3.9 e3.9 e2.9 6.3 e3.9 e3.9 e3.9 e2.9 e2.9 6.3 e3.9 e3.9 e3.9 e2.9 e2.9 6.3 e3.9 e3.1 e3.3 e2.8 e2.9 6.3 e3.9 e3.1 e3.3 e2.8 e2.9 6.3 e3.9 e3.1 e3.3 e2.8 e2.9 6.3 e3.9 e3.9 e3.9 e3.9 e2.9 6.3 e3.9 e3.9 e3.9 e3.9 e3.9 e3.9 e3.9 6.3 e3.9 e3.9 e3.9 e3.9 e3.9 e3.9 e3.9 e3	OCT NOV DEC JAN FEB MAR  5.4 3.2 63.3 63.4 63.2 63.0 62.9 6.3 63.3 63.3 63.1 63.0 62.9 5.8 63.2 63.2 63.2 63.1 63.0 62.9 5.5 63.2 63.3 63.4 63.2 62.9 62.9 5.5 63.2 63.3 63.4 63.2 62.9 62.9 5.5 63.2 63.3 63.4 63.2 62.9 62.9 6.3 63.4 63.4 63.4 63.2 62.9 63.0 62.9 6.6 63.4 63.4 63.4 63.1 62.9 63.7 6.0 63.4 63.4 63.4 63.1 62.9 63.7 6.1 63.3 63.3 63.2 62.9 63.7 6.1 63.3 63.4 63.4 63.1 62.9 63.7 6.1 63.3 63.4 63.4 63.0 62.8 64.0 6.1 63.4 63.4 63.0 62.8 64.0 6.1 63.3 63.4 63.0 62.9 64.1 6.1 63.3 63.4 63.0 62.9 64.1 6.1 63.3 63.4 63.0 62.9 64.3 6.2 63.5 63.4 63.0 62.9 64.3 6.3 63.4 63.5 63.1 62.9 63.9 6.4 63.4 63.5 63.1 62.9 64.1 6.1 63.3 63.4 63.0 62.9 64.1 6.2 63.2 63.3 63.1 62.9 64.1 6.3 63.4 63.5 63.1 62.9 64.1 6.3 63.4 63.5 63.1 62.9 64.1 6.3 63.4 63.5 63.1 62.9 64.1 6.3 63.4 63.5 63.1 62.9 64.1 6.3 63.4 63.5 63.1 62.9 64.1 6.3 63.4 63.5 63.1 62.9 64.1 6.3 63.4 63.5 63.1 62.9 64.1 6.3 63.3 63.4 63.0 62.9 64.1 6.3 63.4 63.5 63.1 62.9 64.1 6.3 63.4 63.5 63.1 62.9 64.1 6.3 63.4 63.5 63.1 62.9 64.1 6.3 63.3 63.4 63.0 62.9 64.1 6.3 63.3 63.1 62.9 64.9 6.2 63.2 63.3 63.1 62.9 64.9 6.2 63.2 63.3 63.1 62.9 64.9 6.2 63.2 63.3 63.1 62.9 64.9 6.3 63.3 63.4 63.1 62.9 64.9 6.3 63.3 63.4 63.1 62.9 64.9 6.3 63.3 63.4 63.1 62.9 64.9 6.3 63.3 63.4 63.1 62.9 64.9 6.3 63.3 63.4 63.1 62.9 64.9 6.3 63.3 63.4 63.1 62.9 64.9 6.3 63.3 63.4 63.1 62.9 64.9 6.3 63.3 63.4 63.1 62.9 64.9 6.3 63.3 63.4 63.1 62.9 64.9 6.3 63.3 63.4 63.1 62.9 64.9 6.3 63.3 63.4 63.1 62.9 64.9 6.3 63.3 63.1 62.9 64.9 6.4 63.1 63.3 63.1 62.9 64.9 6.5 63.4 63.1 63.9 62.9 61.5 6.6 63.4 63.1 63.9 62.9 61.5 6.6 63.4 63.1 63.9 62.9 61.5 6.6 63.4 63.1 63.9 63.9 63.9 63.9 63.9 63.9 63.9 63.9	OCT NOV DEC JAN FEB MAR APR  5.4 3.2 e3.3 e3.4 e3.2 e3.0 e2.9 e17  5.7 e3.3 e3.4 e3.2 e3.0 e2.9 e20  5.8 e3.2 e3.2 e3.1 e3.0 e2.9 e21  5.9 e3.2 e3.2 e3.1 e3.0 e2.9 e21  5.5 e3.2 e3.3 e3.4 e3.2 e3.0 e2.9 e21  5.5 e3.2 e3.3 e3.4 e3.2 e3.0 e2.9 e21  5.5 e3.2 e3.3 e3.4 e3.2 e2.9 e2.0 e23  5.5 e3.2 e3.3 e3.4 e3.2 e2.9 e3.0 e2.9 e25  5.1 e3.3 e3.4 e3.2 e2.9 e3.0 e2.5  5.1 e3.3 e3.4 e3.2 e2.9 e3.0 e2.5  6.0 e3.4 e3.4 e3.4 e3.2 e2.9 e3.3 25  4.7 e3.3 e3.3 e3.2 e2.9 e3.2 24  4.6 e3.4 e3.4 e3.4 e3.1 e2.9 e3.7 22  6.0 e3.4 e3.4 e3.4 e3.2 e2.8 e4.0 17  5.4 e3.5 e3.3 e3.4 e3.0 e2.9 e4.3 22  4.5 e3.5 e3.4 e3.3 e3.2 e2.8 e4.0 17  5.4 e3.5 e3.4 e3.0 e2.9 e4.3 22  4.4 e3.3 e3.4 e3.0 e2.9 e4.3 22  4.4 e3.3 e3.4 e3.0 e2.9 e4.1 22  4.4 e3.3 e3.4 e3.0 e2.9 e4.1 22  4.4 e3.3 e3.4 e3.1 e2.9 e3.9 24  4.5 e3.5 e3.4 e3.0 e2.9 e4.1 22  4.4 e3.3 e3.4 e3.1 e2.9 e3.8 29  4.2 e3.2 e3.3 e3.1 e2.9 e3.8 29  4.2 e3.2 e3.3 e3.1 e2.9 e3.9 24  4.1 e3.2 e3.3 e3.1 e2.9 e3.9 24  4.1 e3.2 e3.3 e3.1 e2.9 e4.9 22  4.0 e3.2 e3.3 e3.1 e2.9 e4.9 22  4.0 e3.2 e3.3 e3.1 e2.9 e4.9 22  3.9 e3.4 e3.1 e3.3 e3.1 e2.9 e4.1 28  3.8 e3.3 e3.4 e3.3 e3.1 e2.9 e4.9 22  4.0 e3.2 e3.3 e3.1 e2.9 e4.9 22  3.9 e3.4 e3.1 e3.3 e2.9 e2.9 e11 15  3.7 e3.1 e3.3 e2.9 e2.9 e12 14  e3.3 e3.4 e3.1 e3.3 e2.9 e2.9 e15 15  e3.4 e3.1 e3.3 e2.9 e2.9 e18 18  3.3 e1.1 e3.3 e2.9 e2.9 e18 18  3.3 e1.1 e3.3 e2.9 e2.9 e18 18  3.3 e3.1 e3.3 e2.9 e2.9 e18 18  3.4 e3.2 e3.1 e3.3 e2.9 e2.9 e18 18  3.5 e3.4 e3.1 e3.3 e2.9 e2.9 e18 18  3.6 e3.3 e3.1 e3.9 e2.9 e17 e17  3.7 e3.1 e3.3 e3.9 e3.4 e3.1 e2.9 e4.9 e3.9  5.7 e3.4 e3.1 e3.3 e2.9 e2.9 e18 18  3.3 e3.1 e3.9 e3.4 e3.1 e3.9 e2.9 e19  5.1 e3.4 e3.1 e3.3 e2.9 e2.9 e18 18  5.5 e3.4 e3.1 e3.3 e2.9 e2.9 e18 18  5.6 e3.4 e3.1 e3.3 e2.9 e2.9 e18 18  5.7 e3.4 e3.1 e3.3 e2.9 e2.9 e18 18  5.8 e3.4 e3.1 e3.9 e3.9 e3.9 e3.9 e3.9 e3.9 e3.9 e3.9	OCT NOV DEC JAN FEB MAR APR MAY  5.4 3.2 6.3 6.3 6.2 6.3 0 6.2 9 6.17 22 5.7 6.3 6.3 6.3 6.3 6.1 6.3 0 6.2 9 6.2 1.2 9 6.3 6.3 6.3 6.3 6.1 6.3 0 6.2 9 6.2 1 44 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3	OCT NOV DEC JAN FEB MAR APR MAY JUN 54 32 63.3 63.2 63.0 62.9 617 22 28 63.3 63.3 63.3 63.1 63.0 62.9 621 29 35 5.9 63.2 63.3 63.3 63.1 63.0 62.9 621 29 35 5.8 63.2 63.3 63.3 63.1 63.0 62.9 621 29 35 5.5 63.2 63.3 63.3 63.1 63.0 62.9 621 44 57 5.5 63.2 63.3 63.3 63.1 63.0 62.9 621 44 57 5.5 63.2 63.3 63.3 63.1 63.0 62.9 621 64 57 5.5 63.2 63.3 63.3 63.2 63.0 62.9 623 60 79 5.5 1 63.3 63.4 63.2 63.0 62.9 623 60 79 5.5 1 63.3 63.4 63.2 63.0 62.9 623 60 79 5.5 1 63.3 63.4 63.2 63.0 62.9 625 105 113 4.8 63.4 63.4 63.2 62.9 63.0 625 105 113 4.8 64.4 63.4 63.1 62.9 63.2 24 94 102 4.6 63.4 63.4 63.1 62.9 63.7 19 115 67 6.1 6.3 63.3 63.3 63.2 62.8 64.0 117 80 44 4.8 63.3 63.3 63.2 62.8 64.0 117 80 44 4.8 64.5 63.5 63.4 63.0 62.8 64.3 11.0 11 80 44 4.8 64.5 63.5 63.4 63.0 62.8 64.3 12.2 28 75 4.4 63.0 62.9 64.1 12.2 28 75 4.4 63.3 63.4 63.0 62.8 64.3 12.2 28 75 4.4 63.0 62.9 64.1 22 28 75 4.4 63.3 63.4 63.0 62.9 64.3 22 34 44 4.8 64.5 63.4 63.0 62.9 64.1 22 28 75 4.4 63.0 62.9 64.1 22 28 75 4.4 63.3 63.4 63.1 62.9 63.9 24 27 70 4.3 63.4 63.5 63.1 62.9 64.1 28 30 67 4.1 63.2 63.3 63.1 62.9 64.1 28 30 67 4.1 63.2 63.3 63.1 62.9 64.1 28 30 67 4.1 63.2 63.3 63.1 62.9 64.1 28 30 67 4.1 63.2 63.3 63.1 62.9 64.9 99 17 89 50 3.8 63.3 63.4 63.1 62.9 64.9 99 17 89 50 3.8 63.3 63.4 63.1 62.9 69.9 17 89 50 3.8 63.3 63.4 63.1 62.9 69.9 17 89 50 3.8 63.3 63.4 63.1 62.9 69.9 17 89 50 3.7 63.1 63.3 63.4 63.1 62.9 69.9 17 89 50 3.8 63.3 63.4 63.1 62.9 69.9 17 89 50 3.7 63.1 63.3 63.4 63.1 62.9 64.1 28 30 67 4.1 63.2 63.3 63.4 63.1 62.9 64.9 12 28 50 66 4.0 63.2 63.3 63.4 63.1 62.9 69.9 17 89 50 3.7 63.1 63.3 63.4 63.1 62.9 69.9 17 89 50 3.8 63.3 63.4 63.1 62.9 64.9 19.5 15 15 46 46 4.0 63.2 63.3 63.4 63.1 62.9 69.9 17 89 50 3.8 63.3 63.4 63.1 62.9 69.9 17 89 50 3.8 63.3 63.4 63.1 62.9 64.9 19.5 15 15 46 46 4.0 63.2 63.3 63.4 63.1 62.9 69.9 17 89 50 3.8 63.3 63.4 63.1 62.9 69.9 17 89 50 3.8 64.2 63.0 63.9 63.0 63.9 63.0 63.0 63.0 63.0 63.0 63.0 63.0 63.0	NOCT   NOV   DEC   JAN   FEB   MAR   APR   MAY   JUN   JUL   5.4   3.2   6.3	OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG  5.4 3.2 cl. 3 cl. 3 cl. 3 cl. 2 cl. 3 cl. 2 cl. 3 cl. 2 cl. 3 cl. 3 cl. 3 cl. 3 cl. 4 cl. 2 cl. 3 cl. 3 cl. 4 cl. 2 cl. 3 cl. 3 cl. 4 cl. 3 cl. 3 cl. 4 cl. 2 cl. 3 cl. 2 cl. 3 cl. 3 cl. 4 cl. 4 cl. 2 cl. 3 cl. 2 cl. 3 cl. 4 cl. 3 cl. 2 cl. 2 cl. 4 cl. 4 cl. 5 cl. 5 cl. 5 cl. 5 cl. 4 cl. 3 cl. 2 cl. 2 cl. 4 cl. 3 cl. 2 cl. 2 cl. 2 cl. 4 cl. 3 cl. 2 cl. 2 cl. 2 cl. 4 cl. 3 cl. 2 cl. 2 cl. 2 cl. 3 cl. 2 cl. 2 cl. 2 cl. 2 cl. 3 cl. 2 cl. 3 cl. 2 cl. 3 cl. 2 cl. 3 cl. 2 cl. 3 cl. 2 cl. 4 cl. 4 cl. 4 cl. 4 cl. 4 cl. 4 cl. 2 cl. 2 cl. 2 cl. 3 cl. 2 cl. 2 cl. 2 cl. 2 cl. 3 cl. 2 cl. 3 cl. 4 c		

e Estimated. a Maximum gage height for period of record, 6.44 ft, Apr 13, 1977.

## 09058610 DICKSON CREEK NEAR VAIL, CO

LOCATION.--Lat 39°42'14", long 106°27'25", Eagle County, Hydrologic Unit 14010001, on right bank 0.6 mi upstream from Freeman Creek, 1.0 mi upstream from mouth, and 6 mi northwest of Vail.

DRAINAGE AREA.--3.41 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1971 to September 2004 (discontinued). Prior to October 1972, published as "near Minturn." For a complete listing of historical data  $available\ for\ this\ site,\ see\ http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09058610$ 

GAGE.--Water-stage recorder. Elevation of gage is 9,245 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except June 20 to Sept. 21 and estimated daily discharges, which are poor. Diversion by Willy N. Ditch 75 ft upstream for irrigation of hay meadows downstream from station.

					R YEAR OC		ET PER SECO TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	e1.2 e1.6 e1.5 1.4 1.4	1.3 e1.3 e1.3 e1.3	1.2 1.1 1.1 1.1 1.0	e0.96 e0.96 e0.88 e0.88 e0.96	e0.93 e0.91 e0.92 e0.93 e0.93	e0.90 e0.91 e0.92 e0.92 e0.90	1.8 2.1 2.1 2.2 2.2	3.3 3.5 4.1 5.3 6.6	5.1 4.2 4.1 4.1 4.4	e3.3 2.7 e2.4 e2.5 e2.6	e1.8 e1.7 e1.6 e1.6 e1.6	e1.0 e1.1 e1.1 e1.6 2.0
6 7 8 9 10	1.4 1.4 1.4 1.5	1.4 1.4 1.3 1.3 e1.3	1.1 1.1 e1.1 e1.1 1.1	e0.96 e0.96 e0.96 e0.95 e0.87	e0.91 e0.92 e0.91 e0.92 e0.91	e0.90 e0.92 e0.97 e0.94 e1.0	2.2 2.2 2.3 2.3 2.1	7.6 8.7 8.9 8.9 9.4	e4.6 5.7 5.4 5.2 4.7	e2.3 e2.0 e2.1 e2.1 2.0	1.7 1.7 e1.7 e1.6 e1.5	e1.7 e1.3 e1.1 e1.1 e1.0
11 12 13 14 15	1.8 1.5 1.5 1.5 1.5	e1.3 e1.4 1.4 e1.4 1.4	0.98 0.94 0.96 1.0 e0.99	e0.95 e0.95 e0.87 e0.87 e0.87	e0.92 e0.90 e0.93 e0.95 e0.95	e0.97 0.99 0.98 0.96 0.96	1.8 1.8 2.0 2.3 2.4	9.5 8.8 7.5 6.1 5.8	4.3 4.1 4.1 3.8 3.8	e1.9 e1.9 e1.7 1.9 1.7	1.4 1.4 1.5 1.4 e1.5	e1.2 e1.2 e1.2 e1.1 e1.1
16 17 18 19 20	1.5 1.4 1.5 1.4 1.4	1.3 e1.3 e1.3 1.2 1.3	1.00 e0.99 1.00 1.00 0.99	e0.95 e0.95 e0.95 e0.95 e0.95	e0.92 e0.91 e0.92 e0.92 e0.90	0.89 0.92 0.97 1.1 1.4	2.8 3.2 3.2 2.8 2.7	5.6 e5.4 e5.4 6.4 8.4	3.7 3.4 3.7 3.4 e3.1	1.6 1.8 1.8 2.0 e2.5	e1.3 1.4 1.7 2.3 e1.6	e1.0 0.96 1.0 1.3 e1.7
21 22 23 24 25	1.4 1.4 1.4 1.3	1.2 1.3 1.1 1.2 1.2	1.0 1.0 1.0 1.0 1.0	e0.93 e0.94 e0.86 e0.86	e0.90 e0.90 e0.90 e0.90 e0.90	1.6 1.8 2.0 2.1 2.2	2.8 2.6 2.5 2.4 2.5	9.6 9.4 8.1 7.5 7.0	e3.9 e3.0 e3.5 e3.5 e3.2	e2.4 2.1 e2.0 e2.1 e2.0	e1.6 1.3 1.4 1.3 1.1	e1.6 1.5 1.5 1.3 1.2
26 27 28 29 30 31	1.2 1.3 1.3 1.3 1.3 1.2	1.2 1.2 1.1 1.1 1.2	1.0 1.1 1.0 1.0 e1.0 1.0	e0.94 e0.94 e0.93 e0.92 e0.93 e0.85	e0.90 e0.90 e0.90 e0.91	2.1 1.9 1.5 1.3 1.3	2.6 3.1 3.6 3.4 3.6	6.6 6.3 6.1 6.9 6.9	e3.2 e3.5 3.1 e2.8 e3.6	e1.6 e1.8 e1.7 e1.9 e2.1 e1.9	1.1 1.2 e1.3 e1.2 e1.1 e1.0	1.3 1.2 0.95 1.0 1.7
TOTAL MEAN MAX MIN AC-FT	43.7 1.41 1.8 1.2 87	38.4 1.28 1.4 1.1 76	31.95 1.03 1.2 0.94 63	28.56 0.92 0.96 0.85 57	26.52 0.91 0.95 0.90 53	38.72 1.25 2.2 0.89 77	75.6 2.52 3.6 1.8 150	215.7 6.96 9.6 3.3 428	118.2 3.94 5.7 2.8 234	64.4 2.08 3.3 1.6 128	45.6 1.47 2.3 1.0 90	38.01 1.27 2.0 0.95 75
MEAN	ICS OF MOR	NTHLY MEA 1.01	N DATA FO 0.82	0.75	0.71	- 2004, BY V 0.81	VATER YEAI 1.61	7.83	10.3	3.29	1.67	1.38
MAX (WY) MIN (WY)	2.22 (1996) 0.01 (1984)	1.01 1.96 (1996) 0.00 (1984)	1.60 (1996) 0.00 (1984)	1.65 (1996) 0.00 (1984)	1.45 (1996) 0.00 (1984)	1.25 (2004) 0.00 (1984)	6.10 (1979) 0.00 (1984)	20.1 (1996) 1.22 (1977)	29.1 (1997) 0.91 (1977)	12.0 (1995) 0.73 (1977)	3.83 (1995) 0.17 (1982)	2.81 (1995) 0.04 (1972)
SUMMAF	RY STATIST	TICS		FOR 2003 (	CALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 19	72 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE	MEAN ANNUAL MANNUAL M DAILY ME DAILY ME	MEAN AN AN AY MINIMU! OW 'AGE AC-FT) DS	M	4 e	3.29 0 Jun 0.73 Feb 0.73 Feb	11	<b>•</b>	0.90 Feb 11 May 52.86 May	1 31 2 20 7 6	1,	a0.00 A 0.00 S 52 J	1997 1977 Jun 2, 1997 Jun 12, 1972 Jun 1, 1997 Jun 1, 1997
	ENT EXCEE				0.76			0.92			0.52	

e Estimated.

No flow at times some years.

Maximum gage height, 3.44 ft, Oct. 2, backwater from beaver dam.

Maximum gage height, 4.89 ft, May 9, 1984, backwater from ice.

## 09058700 FREEMAN CREEK NEAR MINTURN, CO

LOCATION.--Lat 39°41'54", long 106°26'42", Eagle County, Hydrologic Unit 14010001, on right bank 0.8 mi upstream from mouth and 7.5 mi north of Minturn. DRAINAGE AREA.--2.94 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1964 to September 2004 (discontinued). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09058700

GAGE.--Water-stage recorder. Elevation of gage is 9,335 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. No regulation or diversion upstream from station.

KEWIAKI	xsRecords	good except	Tor estimatee	•	DISCHARGE	E, CUBIC FE	ET PER SEC	OND	am mom stat	ion.		
				WATI	ER YEAR OC DA	TOBER 2003 ILY MEAN V		1BER 2004				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2	0.18 0.25	0.11 e0.11	e0.13 e0.12	e0.11 e0.11	e0.12 e0.11	e0.10 e0.09	e0.68 e0.84	2.9 3.8 4.9	2.2 1.9	0.92 0.67	0.20 0.18	0.10 0.10
3 4 5	0.23 0.22 0.20	e0.11 e0.12 e0.12	e0.12 e0.12 e0.11	e0.09 e0.10 e0.12	e0.11 e0.11 e0.11	e0.10 e0.10 e0.09	e0.86 e0.89 e0.92	6.7 8.4	1.7 1.6 1.6	0.59 0.45 0.49	0.32 0.13 0.11	0.10 0.15 0.33
6 7	0.18 0.17	e0.12 e0.12	e0.11 e0.13	e0.12 e0.12	e0.11 e0.11	e0.09 e0.10	e0.91 e0.90	9.6 9.9	1.5 1.3	0.53 0.41	0.14 0.12	0.23 0.16
8 9 10	0.17 0.16 0.18	e0.11 e0.11 e0.11	e0.13 e0.12 e0.12	e0.11 e0.11 e0.10	e0.11 e0.11 e0.11	e0.11 e0.10 e0.12	0.96 e0.95 e0.91	9.5 8.6 8.2	1.2 1.1 1.1	0.44 0.34 0.34	0.12 0.10 0.09	0.15 0.13 0.13
11 12	0.42 0.21	e0.11 e0.12	e0.12 e0.11	e0.11 e0.11	e0.11 e0.11	e0.12 e0.13	e0.88 e0.86	7.9 7.3	1.1 0.99	0.31 0.38	0.09 0.10	0.15 0.13
13 14 15	0.18 0.15 0.15	e0.13 e0.12 e0.12	e0.11 e0.12 e0.11	e0.10 e0.10 e0.10	e0.11 e0.12 e0.12	e0.13 e0.13 e0.12	e0.91 e1.1 1.2	6.4 4.9 4.0	0.96 0.85 0.82	0.28 0.38 0.35	0.10 0.08 0.15	0.16 0.12 0.12
16 17	0.15 0.15	e0.12 e0.12	e0.11 e0.11	e0.12 e0.11	e0.11 e0.11	e0.11 e0.11	1.5 1.9	3.7 3.6	0.80 0.93	0.49 0.28	0.07 0.10	0.12 0.08
18 19 20	0.15 0.13 0.13	e0.11 e0.11 e0.12	e0.11 e0.10 e0.10	e0.12 e0.12 e0.12	e0.11 e0.11 e0.11	e0.13 e0.17 e0.25	1.7 1.4 1.4	3.5 3.8 3.8	1.1 1.1 0.93	0.39 0.29 0.49	0.19 0.45 0.23	0.11 0.15 0.29
21 22	0.12 0.13	e0.12 e0.12	e0.10 e0.11	e0.11 e0.12	e0.10 e0.10	e0.33 e0.44	1.3 1.1	3.6 3.5	1.4 1.0	0.38 0.28	0.23 0.19	0.27 0.31
23 24 25	0.12 0.12 0.10	e0.12 e0.12 e0.12	e0.10 e0.10 e0.11	e0.10 e0.10 e0.10	e0.10 e0.10 e0.10	e0.53 e0.62 e0.67	1.1 1.0 1.1	3.1 2.9 2.6	0.83 0.73 0.74	0.30 0.41 0.28	0.17 0.13 0.12	0.34 0.38 0.35
26 27	e0.10 e0.10	e0.12 e0.12	e0.11 e0.11	e0.12 e0.11	e0.10 e0.10	e0.66 e0.61	1.5 2.6	2.5 2.3	0.78 0.71	0.21 0.26	0.12 0.12	0.27 0.20
28 29 30	0.10 0.10 0.10	e0.12 e0.12 e0.13	e0.11 e0.10 e0.11	e0.11 e0.11 e0.11	e0.10 e0.10	e0.52 e0.46 e0.46	2.8 3.5 2.8	2.2 2.6 2.7	0.67 0.73 1.1	0.24 0.21 0.23	0.12 0.12 0.11	0.18 0.19 0.65
31	0.10		e0.11	e0.10		e0.53		2.8		0.25	0.11	
TOTAL MEAN	4.95 0.16	3.53 0.12	3.48 0.11	3.39 0.11	3.13 0.11	8.23 0.27	40.47 1.35	152.2 4.91	33.47 1.12	11.87 0.38	4.61 0.15	6.15 0.20
MAX MIN AC-FT	0.42 0.10 9.8	0.13 0.11 7.0	0.13 0.10 6.9	0.12 0.09 6.7	0.12 0.10 6.2	0.67 0.09 16	3.5 0.68 80	9.9 2.2 302	2.2 0.67 66	0.92 0.21 24	0.45 0.07 9.1	0.65 0.08 12
					YEARS 1965				00	24	9.1	12
MEAN MAX	0.26 0.78	0.18 0.45	0.12 0.26	0.10 0.24	0.09 0.21	0.13 0.29	0.68 1.73	6.80 18.0	6.17 23.2	0.92 3.50	0.33 1.25	0.26 0.70
(WY) MIN	(1985) 0.07	(1985) 0.03	(1983) 0.00	(1983) 0.00	(1983) 0.00	(1986) 0.00	(1971) 0.00	(1984) 1.26	(1983) 0.30	(1995) 0.12	(1983) 0.07	(1984) 0.08
(WY)	(2003)	(1965)	(1965)	(1965)	(1965)	(1991)	(1991)	(1977)	(1977)	(2002)	(1981)	(1977)
SUMMAI	RY STATIS	TICS		FOR 2003	CALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	R YEARS 1	965 - 2004
ANNUAI HIGHEST	ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN			52	20.95 1.43		2'	75.48 0.75			1.34 3.54 0.31	1984 1977
HIGHEST	Γ DAILY ME	EAN			30 Jun e0.07 Feb			9.9 May 0.07 Aug	y 7 g 16		63 I	May 25, 1984 Nov 10, 1964
MAXIMU	L SEVEN-DA JM PEAK F JM PEAK S		M		0.07 Feb	11			5 29 y 6		82 I	Nov 10, 1964 May 25, 1984 May 25, 1984
ANNUAL	L RUNOFF ( ENT EXCER	(AC-FT)		1,03	30 3.1		54	2.12 May 46 2.0	, 0		972 3.2	.1uy 25, 1964
50 PERCI	ENT EXCEE ENT EXCEE	EDS			0.15 0.08			0.13 0.10			0.20 0.06	

e Estimated.

a No flow some days some years.
b Maximum gage height, 3.51 ft, May 18, 1973, backwater from ice.

## 09058800 EAST MEADOW CREEK NEAR MINTURN, CO

LOCATION.--Lat 39°43′54″, long 106°25′34″, in T.4 S., R.81 W., Eagle County, Hydrologic Unit 14010001, on left bank 1.4 mi upstream from mouth, and 10 mi north of Minturn.

DRAINAGE AREA.--3.61 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1964 to September 2004 (discontinued). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09058800

GAGE.--Water-stage recorder. Elevation of gage is 9,455 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No regulation or diversion upstream from station.

					R YEAR OC		ET PER SECO 3 TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.75 1.1 1.0 0.95 0.98	e0.68 e0.69 e0.75 e0.67	e0.70 e0.76 e0.74 e0.73 e0.63	e0.68 e0.69 e0.61 e0.62 e0.69	e0.66 e0.64 e0.65 e0.66	e0.64 e0.64 e0.64 e0.64	e1.8 e2.1 e2.2 e2.3 e2.4	3.7 4.0 6.0 8.3	12 11 11 12 14	6.1 4.6 4.1 3.8 3.6	1.3 1.2 1.2 1.1 1.1	0.79 0.72 0.68 1.1 1.8
6 7 8 9 10	0.84 0.75 0.74 0.67 0.76	e0.66 e0.68 e0.70 e0.68 e0.68	e0.61 e0.71 e0.71 e0.72 e0.72	e0.68 e0.68 e0.69 e0.61	e0.63 e0.65 e0.63 e0.65 e0.65	e0.64 e0.66 e0.69 e0.67 e0.81	e2.3 e2.3 2.3 2.3 e2.0	14 17 18 19 20	15 17 17 16 14	3.4 3.2 3.0 2.8 2.7	1.0 0.94 0.86 0.77 0.71	2.5 2.4 1.8 1.4 1.4
11 12 13 14 15	1.4 0.96 0.83 e0.85 e0.85	e0.68 e0.67 e0.70 e0.67 e0.72	e0.79 e0.79 e0.77 e0.76 e0.75	e0.68 e0.68 e0.61 e0.61	e0.65 e0.64 e0.65 e0.67 e0.67	e0.83 e0.90 e0.98 e0.97 e0.91	e1.9 e1.8 2.0 2.2 2.4	21 18 14 12 11	13 11 10 9.2 8.8	2.6 2.4 2.2 2.3 2.5	0.76 0.72 0.71 0.70 0.66	1.4 1.1 1.1 0.99 0.92
16 17 18 19 20	0.84 0.79 0.75 0.74 0.67	e0.69 e0.70 e0.66 e0.68 e0.66	e0.75 e0.71 e0.74 e0.61 e0.61	e0.68 e0.69 e0.68 e0.68	e0.64 e0.65 e0.65 e0.64	e0.92 e0.87 e0.94 e1.1 e1.4	2.9 3.5 3.5 2.9 2.7	11 11 13 16 18	8.5 8.6 9.1 8.9 7.6	2.2 2.1 2.0 1.9 2.4	0.60 0.76 3.4 7.1 3.6	0.83 0.78 0.74 1.2 1.8
21 22 23 24 25	0.67 0.67 0.63 e0.63	e0.73 e0.70 e0.68 e0.65 e0.61	e0.61 e0.71 e0.59 e0.58 e0.69	e0.67 e0.67 e0.60 e0.60	e0.64 e0.64 e0.64 e0.64	e1.6 e1.8 e2.0 e2.1 e2.2	2.5 2.5 2.3 2.2 2.2	19 19 18 16 14	8.0 7.0 5.8 5.2 5.1	2.0 1.7 3.2 3.4 2.2	2.9 2.6 2.3 1.8 1.6	1.7 1.7 1.8 2.2 2.8
26 27 28 29 30 31	e0.66 e0.66 e0.74 e0.74 e0.71 e0.69	e0.61 e0.67 e0.67 e0.67 e0.67	e0.66 e0.64 e0.66 e0.63 e0.65 e0.66	e0.67 e0.66 e0.66 e0.65 e0.66 e0.58	e0.64 e0.64 e0.64 e0.64	e2.2 e2.0 e1.5 e1.3 e1.3 e1.5	2.3 3.3 4.0 4.2 4.7	15 14 16 16 14 12	5.1 4.7 4.3 5.4 6.8	1.8 1.7 1.7 1.7 1.6 1.6	1.4 1.4 1.4 1.1 0.98 0.87	2.8 2.5 2.2 2.2 3.3
TOTAL MEAN MAX MIN AC-FT	24.69 0.80 1.4 0.63 49	20.36 0.68 0.75 0.61 40	21.39 0.69 0.79 0.58 42	20.24 0.65 0.69 0.58 40	18.74 0.65 0.67 0.63 37	35.99 1.16 2.2 0.64 71	78.0 2.60 4.7 1.8 155	439.0 14.2 21 3.7 871	291.1 9.70 17 4.3 577	82.5 2.66 6.1 1.6 164	47.54 1.53 7.1 0.60 94	48.65 1.62 3.3 0.68 96
						,	VATER YEAI	` ′				
MEAN MAX (WY) MIN (WY)	1.27 2.78 (1966) 0.73 (1978)	0.95 2.00 (1966) 0.55 (1979)	0.78 1.50 (1966) 0.44 (1979)	0.68 1.20 (1999) 0.35 (1979)	0.66 1.30 (1999) 0.40 (1965)	0.76 1.43 (1999) 0.40 (1965)	1.66 3.75 (1987) 0.66 (1975)	11.7 26.3 (1986) 2.97 (1975)	22.0 45.7 (1983) 4.76 (2002)	7.76 28.8 (1983) 0.90 (2002)	2.16 5.85 (1965) 0.58 (2002)	1.39 3.09 (1984) 0.75 (1977)
SUMMAI	RY STATIST	TICS		FOR 2003 (	CALENDAR	YEAR	FOR 200	)4 WATER Y	EAR	WATER	YEARS 19	965 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE		MEAN AN AN Y MINIMUI OW AGE AC-FT) DS	M	5 e 3,44 2	4.75 2 Jun 0.58 Dec 0.62 Feb	24	2,2 <sub>4</sub> 2	26 May 1.38 May	24 2 19 7 10		0.32 0.33 107	1983 1977 Jun 20, 1983 Jan 7, 1979 Jan 6, 1979 Jun 17, 1995 Jun 17, 1995
	ENT EXCEED				0.62			0.64			0.58	

e Estimated.

a Maximum gage height, 2.22 ft, May 12, 1970, backwater from ice.

## 09059500 PINEY RIVER NEAR STATE BRIDGE, CO

 $LOCATION.--Lat~39^{\circ}48'00", long~106^{\circ}35'00", in~SW^{1}/_{4}NE^{1}/_{4}~sec. 16, T.3~S., R.82~W., Eagle~County, Hydrologic~Unit~14010001, on~left~bank~at~old~bridge~crossing,~1.2~mi~downstream~from~Rock~Creek,~and~6.0~mi~southeast~of~State~Bridge.$ 

DRAINAGE AREA.--86.2 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1944 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=09059500

REVISED RECORDS .-- WSP 2124: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Datum of gage is 7,272.35 ft above NGVD of 1929. Prior to July 29, 1944, nonrecording gage, and July 29, 1944 to Oct. 24, 1947, water-stage recorder, at datum 2.38 ft higher.

DISCHARGE CHRIC FEET DED SECOND

REMARKS.--Records poor. Diversions upstream from station for irrigation of about 400 acres of hay meadows upstream and downstream from station.

					R YEAR OC	E, CUBIC FEE TOBER 2003 LY MEAN V	TO SEPTEM					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	17 19 20 19	15 e15 e15 e15 e15	e15 e16 e16 e16 e16	e15 e15 e15 e15 e15	e15 e15 e15 e15 e15	e16 e16 e16 e16 e16	61 64 67 69 78	96 96 116 153 193	139 132 137 157 179	104 91 82 75 69	24 22 22 21 19	12 12 11 15 23
6 7 8 9 10	19 18 18 17 17	e15 e15 e16 e15 e16	e16 e16 e16 e16 e16	e15 e15 e16 e15 e15	e15 e15 e15 e15 e15	e16 e17 e18 e18 e20	80 79 83 85 78	244 273 285 277 277	198 220 231 211 197	63 60 59 56 54	21 20 18 16 15	26 29 28 26 24
11 12 13 14 15	22 21 19 18 18	e16 e16 e16 e16 e16	e16 e16 e16 e16 e16	e15 e15 e15 e15 e15	e15 e14 e14 e15 e15	e20 e24 e26 e26 e25	67 64 63 71 75	288 254 196 163 146	168 143 128 135 145	53 48 44 45 48	14 13 12 12 11	25 23 22 20 20
16 17 18 19 20	17 17 17 17 16	e16 e16 e16 e16 e16	e16 e16 e16 e16 e15	e15 e15 e15 e15 e15	e15 e15 e15 e15 e15	24 24 26 29 34	82 94 97 84 78	143 147 155 189 230	140 139 141 142 134	47 45 43 40 45	11 11 14 44 44	19 18 18 21 27
21 22 23 24 25	16 16 16 16 14	e16 e16 e16 e15 e16	e15 e15 e15 e15 e15	e15 e15 e15 e15 e14	e16 e16 e16 e16 e16	41 49 62 66 70	75 70 63 59 62	244 240 204 192 176	134 122 100 98 99	44 36 36 51 40	37 31 28 23 21	32 34 34 34 36
26 27 28 29 30 31	e16 e16 16 16 16	e15 e16 e16 e16 e15	e15 e15 e15 e15 e15	e14 e15 e15 e15 e15 e14	e16 e16 e16 e16	73 73 60 54 51 54	60 74 94 100 108	164 169 171 202 177 153	99 91 89 90 108	33 31 30 28 27 28	18 19 19 17 17	38 37 36 35 45
TOTAL MEAN MAX MIN AC-FT	538 17.4 22 14 1,070	469 15.6 16 15 930	483 15.6 16 15 958	463 14.9 16 14 918 OR WATER Y	442 15.2 16 14 877	1,080 34.8 73 16 2,140	2,284 76.1 108 59 4,530	6,013 194 288 96 11,930	4,246 142 231 89 8,420	1,555 50.2 104 27 3,080	628 20.3 44 11 1,250	780 26.0 45 11 1,550
MEAN MAX (WY) MIN (WY)	19.8 62.9 (1962) 6.72 (1978)	17.8 34.1 (1985) 8.68 (1980)	15.0 24.6 (1985) 7.19 (1980)	13.5 20.0 (1966) 7.44 (1980)	13.2 24.5 (1986) 7.86 (1980)	16.1 35.3 (1986) 9.18 (1980)	55.1 167 (1962) 16.8 (1961)	263 495 (1958) 99.0 (1977)	335 656 (1957) 74.1 (1954)	107 379 (1983) 14.8 (1977)	31.4 94.9 (1983) 6.22 (1954)	18.5 46.1 (1984) 4.00 (1944)
SUMMAI	RY STATIST	ICS		FOR 2003 C		YEAR		04 WATER Y	EAR	WATER	YEARS 1944	4 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCI 50 PERCI		IEAN AN AN Y MINIMUN OW 'AGE AC-FT) DS DS	M		7.4 ) Jun 9.6 Jan 9.9 Jan )	16	28 30 37,65	51.9 38 May 11 Aug 12 Aug 06 May 4.32 May	g 15 g 11 y 11	e1,; 1, 2, 54,	1.9 Se 2.3 Se 400 Ju	1984 1977 y 25, 1984 p 1, 1954 p 17, 1954 n 1, 2003 n 1, 2003

e Estimated.

a From crest-stage gage.
b Maximum gage height, 5.82 ft, Jun 27, 1983, from peak stage indicator, but may have been higher May 25, 1984.

## 09061600 EAST FORK EAGLE RIVER NEAR CLIMAX, CO

 $LOCATION.--Lat~39°24'37", long~106°14'57", in~NW^{1}/_{4}SW^{1}/_{4}~sec. 29, T.7~S., R.79~W., Eagle~County, \\ Hydrologic~Unit~14010003, on~right~bank~0.9~mi~upstream~from~Sheep~Gulch, and~4.5~mi~northwest~of~Climax.$ 

DRAINAGE AREA.--7.78 mi<sup>2</sup>.

PERIOD OF RECORD.--June 2002 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=09061600

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 10,000 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for July 7-8, 16-18, Aug. 4-6, 26, and Sept. 9, 29-30, and estimated daily discharges, which are poor. Transbasin diversion upstream from station from Robinson Reservoir, (capacity 2,520 acre-ft) to Tenmile Creek for mining development.

		, (•	I	DISCHARGE R YEAR OC	E, CUBIC FEI TOBER 2003	ET PER SECO TO SEPTEN	OND				
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
0.64 0.92 1.1 0.89 0.81	7.3 7.4 7.5 7.4 7.3	6.5 6.6 6.8 6.9 6.9	5.5 5.5 5.6 e5.6 e5.6	e1.1 e1.1 e1.1 e1.1	1.1 1.0 1.0 1.00 1.00	1.0 0.98 0.82 0.80 0.90	1.7 1.8 2.7 4.0 6.0	10 9.9 9.7 9.7 9.9	5.0 3.9 3.5 3.4 3.4	2.1 2.1 2.0 2.8 4.6	0.77 0.71 0.74 0.93 1.1
0.73 0.70 0.68 0.66 0.68	7.3 7.3 7.3 7.2 7.2	6.7 6.7 6.6 6.8 7.1	e5.5 e5.5 e4.5 e3.3 e3.3	1.1 1.1 1.1 1.1 1.1	0.99 1.00 1.0 1.1 0.90	0.92 0.94 1.0 1.0 0.99	8.8 10 11 12 13	10 11 11 10 9.5	3.3 2.9 2.7 2.5 2.5	3.7 1.7 1.5 1.4 1.3	1.0 0.86 2.0 3.9 2.5
0.88 0.78 0.70 0.54 0.57	7.2 7.1 7.1 7.2 7.1	6.5 6.5 6.4 6.4	e3.3 e3.3 e3.3 e3.3 e2.7	1.1 1.1 1.1 1.1 1.1	0.60 0.61 0.61 0.60 0.59	1.9 1.0 0.93 0.93 1.00	14 12 9.5 8.7 8.0	9.0 8.0 7.5 7.0 6.9	2.3 2.2 2.0 1.9 2.0	1.2 1.2 1.1 1.1 1.0	0.86 0.77 0.74 0.70 0.70
0.60 0.59 0.58 0.56 0.56	7.0 7.1 7.2 7.1 7.2	e6.3 6.2 6.2 6.2 6.2	e2.1 e2.1 e2.1 e2.1 e1.8	1.1 1.1 1.1 1.1 1.1	0.55 0.57 0.59 0.68 0.76	1.1 1.3 1.3 1.3 1.1	9.2 9.9 13 18 20	6.6 6.6 6.9 6.2 5.7	3.2 3.9 2.6 2.2 2.2	1.1 1.1 1.2 2.2 1.6	0.66 0.66 0.63 0.83 0.87
0.55 0.55 0.53 0.49 0.30	7.1 e7.1 e7.0 6.9	6.1 6.0 6.1 6.0 6.0	e1.6 e1.1 e1.1 e1.0 e1.1	1.1 1.1 1.1 1.1 1.1	0.81 0.80 0.85 0.87 0.95	1.1 1.2 0.97 1.0 1.1	20 17 16 15 14	6.4 6.0 5.0 4.4 4.2	2.3 2.0 2.1 2.5 1.9	1.5 1.8 1.5 1.2 2.1	1.2 1.2 1.2 1.4 1.4
e0.29 0.52 0.56 1.4 3.2 5.7	6.9 6.9 6.8 6.8 6.5	5.9 6.0 6.0 5.9 5.6 5.5	e1.1 e1.1 e1.1 e1.1 e1.1	1.1 1.1 1.1 1.1 	1.0 0.94 0.83 0.80 0.81 0.88	1.2 1.3 1.6 1.8 1.7	14 14 14 13 11	4.6 4.4 3.9 4.3 6.3	1.8 1.8 1.7 1.5 1.7 2.3	3.0 2.2 1.0 0.92 0.86 0.81	1.3 1.2 2.5 4.8 5.3
28.26 0.91 5.7 0.29 56	213.6 7.12 7.5 6.5 424	196.0 6.32 7.1 5.5 389	88.5 2.85 5.6 1.0 176	31.9 1.10 1.1 1.1 63	25.79 0.83 1.1 0.55 51	34.18 1.14 1.9 0.80 68	352.3 11.4 20 1.7 699	220.6 7.35 11 3.9 438	79.2 2.55 5.0 1.5 157	52.89 1.71 4.6 0.81 105	43.43 1.45 5.3 0.63 86
							, ,	160	• 00	4.00	4.05
1.09 1.27 (2003) 0.91 (2004)	7.12 (2004) 0.68 (2003)	3.50 6.32 (2004) 0.67 (2003)	2.23 2.85 (2004) 1.61 (2003)	2.51 (2003) 1.10 (2004)	0.72 0.83 (2004) 0.60 (2003)	1.21 1.29 (2003) 1.14 (2004)	13.2 15.1 (2003) 11.4 (2004)	16.8 26.3 (2003) 7.35 (2004)	2.88 4.05 (2003) 2.03 (2002)	1.29 1.71 (2004) 0.56 (2002)	1.07 1.45 (2004) 0.66 (2002)
RY STATIST	TICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 200	2 - 2004
MEAN ANNUAL I ANNUAL I ANNUAL M DAILY ME DAILY ME SEVEN-DA JM PEAK FI JM PEAK SI CRUNOFF (A ENT EXCEE	MEAN EAN AN AY MINIMUN LOW FAGE AC-FT) DS DS	M	55: e( ( 4,130:	5.71 5 May 0.29 Oct 0.36 Mar 0 3 2.3	26		3.73  20 May e0.29 Oc 0.46 Oc 29 May b1.97 May 10 8.2 1.9	t 26 t 21 <sub>7</sub> 19	3,	a0.13 Se 0.14 Se 79 Ma c2.48 Ma 060 9.7 1.4	2003 2004 ay 29, 2003 ep 1, 2002 ep 1, 2002 ep 1, 2003 ay 29, 2003
	OCT  0.64 0.92 1.1 0.89 0.81 0.73 0.70 0.68 0.66 0.68 0.88 0.70 0.54 0.57 0.60 0.59 0.58 0.56 0.56 0.55 0.53 0.49 0.30 e0.29 0.52 0.56 1.4 3.2 5.7 28.26 0.91 5.7 0.29 56 ICS OF MOI 1.09 1.27 (2003) 0.91 (2004) RY STATIST TOTAL MEAN I ANNUAL IN I COMPANIENT ME IN INTERPRETATION I TOTAL I TO	OCT NOV  0.64 7.3 0.92 7.4 1.1 7.5 0.89 7.4 0.81 7.3 0.73 7.3 0.70 7.3 0.68 7.3 0.66 7.2 0.68 7.2 0.68 7.2 0.88 7.2 0.78 7.1 0.70 7.1 0.54 7.2 0.57 7.1 0.54 7.2 0.57 7.1 0.59 7.1 0.58 7.2 0.56 7.1 0.55 7.1 0.55 7.1 0.55 87.1 0.57 7.5 0.59 6.8 1.4 6.8 3.2 6.5 5.7 28.26 213.6 0.91 7.12 5.7 7.5 0.29 6.5 56 424  ICS OF MONTHLY MEAN 1.09 3.90 1.27 7.12 (2003) (2004) 0.91 0.68 (2004) (2003)  RY STATISTICS  TOTAL MEAN T ANNUAL MEAN ANNUAL MEAN ANNUAL MEAN ANNUAL MEAN T DAILY MEAN T DAILY MEAN T DAILY MEAN	OCT NOV DEC  0.64 7.3 6.5 0.92 7.4 6.6 1.1 7.5 6.8 0.89 7.4 6.9 0.81 7.3 6.9 0.73 7.3 6.7 0.70 7.3 6.7 0.70 7.3 6.7 0.68 7.3 6.6 0.66 7.2 6.8 0.68 7.2 7.1 0.88 7.2 6.5 0.78 7.1 6.5 0.70 7.1 6.4 0.54 7.2 6.4 0.57 7.1 6.4 0.59 7.1 6.2 0.58 7.2 6.2 0.56 7.1 6.2 0.58 7.2 6.2 0.56 7.1 6.2 0.55 7.1 6.1 0.55 e7.1 6.1 0.55 e7.1 6.1 0.55 e7.1 6.1 0.49 e7.0 6.0 0.53 e7.1 6.1 0.49 e7.0 6.0 0.53 e7.1 6.1 0.49 e7.0 6.0 0.50 6.9 6.0 e0.29 6.9 5.9 0.52 6.9 6.0 e0.29 6.9 5.9 0.52 6.9 6.0 0.56 6.8 6.0 1.4 6.8 5.9 3.2 6.5 5.6 5.7 5.5 28.26 213.6 196.0 0.91 7.12 6.32 5.7 7.5 7.1 0.29 6.5 5.5 56 424 389  ICS OF MONTHLY MEAN DATA FOR ANNUAL MEAN DATA FOR ANNUAL MEAN TO ALLY ME	OCT NOV DEC JAN  0.64 7.3 6.5 5.5 0.92 7.4 6.6 5.5 1.1 7.5 6.8 5.6 0.89 7.4 6.9 e5.6 0.81 7.3 6.9 e5.6 0.81 7.3 6.9 e5.6 0.73 7.3 6.7 e5.5 0.70 7.3 6.7 e5.5 0.68 7.3 6.6 e4.5 0.68 7.2 6.8 e3.3 0.68 7.2 7.1 e3.3 0.88 7.2 6.5 e3.3 0.78 7.1 6.5 e3.3 0.78 7.1 6.5 e3.3 0.79 7.1 6.4 e3.3 0.54 7.2 6.4 e3.3 0.57 7.1 6.4 e2.7 0.60 7.0 e6.3 e2.1 0.55 7.1 6.4 e2.7 0.58 7.2 6.2 e2.1 0.56 7.1 6.2 e2.1 0.56 7.1 6.2 e2.1 0.55 7.1 6.1 e1.6 0.55 e7.1 6.0 e1.1 0.53 e7.1 6.1 e1.6 0.55 e7.1 6.0 e1.1 0.53 e7.1 6.1 e1.6 0.55 e7.1 6.0 e1.1 0.53 e7.1 6.1 e1.1 0.49 e7.0 6.0 e1.0 0.30 6.9 6.0 e1.1 0.52 6.9 6.0 e1.1 0.56 6.8 6.0 e1.1 1.4 6.8 5.9 e1.1 3.2 6.5 5.6 e1.1 5.7 5.5 e1.1 28.26 213.6 196.0 88.5 0.91 7.12 6.32 2.85 0.91 7.12 6.32 2.85 5.7 7.5 7.1 5.6 0.29 6.5 5.5 1.0 1CS OF MONTHLY MEAN DATA FOR WATER MAILY MEAN ANNUAL MEAN AN	DISCHARGE   WATER YEAR OC DAI	DISCHARGE, CUBIC FEWATER YEAR OCTOBER 2003   DAILY MEAN V   DEC   JAN   FEB   MAR	DISCHARGE, CUBIC FEET PER SEC WATER YEAR OCTOBER 2003 TO SEPTEM DAILY MEAN VALUES    OCT   NOV   DEC   JAN   FEB   MAR   APR	OCT NOV DEC JAN FEB MAR APR MAY  0.64 7.3 6.5 5.5 e1.1 1.1 1.0 1.7  0.92 7.4 6.6 5.5 e1.1 1.1 1.0 0.98 1.8  1.8 1.7 7.5 6.8 5.5 e1.1 1.0 0.98 1.8  1.8 1.7 7.5 6.9 e5.6 e1.1 1.0 0.82 2.7  0.89 7.4 6.9 e5.6 e1.1 1.00 0.80 4.0  0.81 7.3 6.7 e5.5 1.1 1.00 0.90 6.0  0.73 7.3 6.7 e5.5 1.1 0.99 0.92 8.8  0.70 7.3 6.7 e5.5 1.1 1.00 0.94 10  0.66 7.2 6.8 e3.3 1.1 1.1 1.0 1.0 1.1  0.66 7.2 6.8 e3.3 1.1 1.1 1.0 1.0 1.1  0.68 7.3 6.6 e4.5 1.1 1.0 0.90 0.99 13  0.88 7.2 6.5 e3.3 1.1 0.60 1.9 14  0.78 7.1 6.5 e3.3 1.1 0.60 1.9 14  0.78 7.1 6.5 e3.3 1.1 0.61 1.0 12  0.70 7.1 6.4 e3.3 1.1 0.61 1.0 12  0.70 7.1 6.4 e3.3 1.1 0.61 0.93 9.5  0.54 7.2 6.4 e3.3 1.1 0.61 0.93 9.5  0.55 7.1 6.4 e2.7 1.1 0.55 1.1 9.2  0.59 7.1 6.2 e2.1 1.1 0.55 1.1 9.2  0.59 7.1 6.2 e2.1 1.1 0.55 1.1 9.2  0.59 7.1 6.2 e2.1 1.1 0.55 1.1 9.2  0.55 7.1 6.1 e1.6 1.1 0.81 1.1 20  0.55 7.1 6.1 e1.1 1.1 0.85 0.97 16  0.49 e7.0 6.0 e1.1 1.1 0.85 0.97 16  0.49 e7.0 6.0 e1.1 1.1 0.87 1.0 15  0.50 6.9 6.0 e1.1 1.1 0.87 1.0 15  0.50 6.9 6.0 e1.1 1.1 0.87 1.0 15  0.70 7.1 6.2 2.2 2.1 1.1 0.0 0.8 1.2 17  0.50 6.8 6.8 6.0 e1.1 1.1 0.88 1.1 1.1 1.0 1.2  0.70 7.1 6.3 2.85 1.10 0.83 1.14 11.4  0.80 1.2 17  0.81 1.1 1.9 20  0.55 7.1 6.1 e1.6 1.1 1.1 0.81 1.1 1.0 1.2  0.50 6.8 6.8 6.0 e1.1 1.1 0.80 1.2 1.3 14  0.50 6.0 6.0 e1.1 1.1 0.80 1.2 1.3 14  0.50 6.0 6.0 e1.0 0.1 1.0 0.83 1.14 11.1 1.0 1.5  0.50 6.8 6.8 6.9 0.0 e1.1 1.1 1.1 0.80 1.2 1.1 1.0 1.5  0.70 0.90 0.90 0.90 0.90 0.90 0.90 0.90	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOOBER 2003 TO SEPTEMBER 2004	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004	DISCHARGE   CUBIC FEET PER SECOND

e Estimated.

Also occurred Sep 6, 2002. Maximum gage height, 2.41 ft, Jan 5, 2004, backwater from ice. Maximum gage height, 2.85 ft, Feb 7, 2003, backwater from ice.

## 09063000 EAGLE RIVER AT RED CLIFF, CO

LOCATION.--Lat 39°30'30", long 106°21'58", in  $NW^{1}/_{4}SW^{1}/_{4}$  sec.20, T.6 S., R.80 W., Eagle County, Hydrologic Unit 14010003, on left bank at Red Cliff, and 0.3 mi upstream from Turkey Creek.

DRAINAGE AREA.--70.0 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1910 to September 1925, May 1944 to current year. Monthly discharge only for some periods, published in WSP 1313. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09063000

REVISED RECORDS.--WSP 2124: Drainage area. WRD Colo. 1972: 1971.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 8,653.80 ft above NGVD of 1929, (levels by U.S. Bureau of Reclamation). Jan. 8, 1911 to Sept. 30, 1925, nonrecording gage at bridge 0.3 mi downstream at different datum. May 24, 1944 to Oct. 12, 1952, water-stage recorder at site 50 ft downstream at datum 1.46 ft lower. Oct. 13, 1952 to May 5, 1982, at site 250 ft downstream at datum 5.00 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversions upstream from station by Columbine, Ewing, and Wurtz Ditches. Transbasin diversion upstream from station from Robinson Reservoir (capacity, 2,520 acre-ft) to Tenmile Creek for mining development. Small diversions for irrigation of 400 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND

							TO SEPTEM	IBER 2004				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	9.8 10 11 11	9.3 12 14 14 12	e14 e14 e13 e13 e13	e13 e13 e13 e13 e13	e9.6 e9.6 e9.6 e9.6	e9.3 e9.2 e9.3 e9.3	e22 e23 e24 e24 e24	32 33 41 50 57	69 65 63 63	37 32 30 28 28	16 16 16 15 16	9.1 8.4 8.4 9.3
6 7 8 9 10	10 10 10 9.9 10	12 12 12 12 12	e14 e13 e13 e14 e14	e13 e13 e12 e12 e12	e9.5 e9.4 e9.3 e9.3	e9.2 e9.1 e9.1 e9.2 e9.1	e25 25 25 e26 e25	66 69 70 72 73	65 68 69 68 67	28 26 25 23 23	17 15 14 13 12	9.6 9.1 8.7 8.8
11 12 13 14 15	11 10 9.8 9.6 9.6	13 13 13 14 14	e14 e13 e14 e14 e13	e12 e12 e12 e12 e11	e9.3 e9.2 e9.1 e9.0 e9.1	e8.9 e8.6 e8.6 e8.7 e8.6	e24 e24 e24 e25 27	82 80 71 63 57	63 60 56 53 51	22 22 21 20 21	11 11 11 10 10	9.1 8.9 8.9 8.8 8.9
16 17 18 19 20	9.6 9.5 10 10	12 13 13 e13 e13	e13 e13 e13 e13	e10 e10 e10 e10 e10	e9.1 e9.2 e9.2 e9.3 e9.3	e8.6 e8.6 e8.7 e9.1 e10	29 32 34 32 30	56 58 59 69 79	49 48 48 46 43	21 25 23 22 21	10 11 12 17 17	8.7 8.4 8.6 9.3
21 22 23 24 25	9.2 9.0 8.9 8.6	e13 e13 e13 e13	e14 e13 e13 e13 e13	e10 e9.5 e9.5 e9.6 e9.5	e9.4 e9.3 e9.3 e9.3	e11 e13 e15 e18 e20	29 27 26 24 26	86 88 83 81 78	44 43 39 36 35	e20 e20 e19 e20 e19	14 14 14 12 11	12 14 13 14 13
26 27 28 29 30 31	8.0 8.9 8.9 8.8 8.6 8.3	e13 e13 e13 e13 e14	e13 e13 e13 e13 e13	e9.6 e9.6 e9.6 e9.6 e9.6	e9.3 e9.2 e9.3 e9.2	e21 e21 e20 e20 e21 e21	26 28 32 35 36	76 76 77 79 81 75	36 36 34 34 40	e18 e19 e17 16 16	11 11 10 9.6 9.3 9.3	12 11 11 11 12
TOTAL MEAN MAX MIN AC-FT	300.0 9.68 11 8.0 595	385.3 12.8 14 9.3 764	412 13.3 14 13 817	341.7 11.0 13 9.5 678	270.2 9.32 9.6 9.0 536	381.4 12.3 21 8.6 757	813 27.1 36 22 1,610	2,117 68.3 88 32 4,200	1,554 51.8 69 34 3,080	699 22.5 37 16 1,390	395.2 12.7 17 9.3 784	307.0 10.2 14 8.4 609
							VATER YEAI	, ,				
MEAN MAX (WY) MIN (WY)	15.9 31.8 (1962) 7.67 (2003)	13.4 25.2 (1985) 8.47 (1965)	11.2 18.8 (1985) 7.06 (1989)	10.4 16.3 (1918) 5.07 (1989)	10.2 19.7 (1916) 4.74 (1989)	11.8 25.6 (1916) 5.68 (1981)	32.0 81.3 (1916) 9.48 (1975)	153 387 (1911) 36.5 (1981)	192 422 (1912) 27.4 (2002)	54.8 161 (1995) 12.5 (2002)	25.1 54.5 (1945) 6.87 (2002)	17.9 39.0 (1921) 7.32 (2002)
SUMMAR	RY STATIST	TICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	)4 WATER Y	EAR	WATER	YEARS 191	1 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE 50 PERCE	, MEAN `ANNUAL ! ANNUAL ! `DAILY ME DAILY ME.	MEAN AN AN Y MINIMUI OW CAGE AC-FT) DS DS	М	26,270 106 11	5.3 5 Jun 5.6 Jan 5.9 Jan	30	5 15,82 5	21.8 88 May 8.0 Oc 8.6 Oc 99 May 3.68 May	t 26 t 25 7 21	b1,0 33,	a1.0 C 3.8 J 010 Ji c4.00 Ji	1912 2002 un 5, 1912 bct 15, 1917 an 31, 1989 un 5, 1912 un 5, 1912

e Estimated.

a Also occurred Oct 16, 1917.

b Maximum discharge observed, site and datum then in use, from rating curve extended above 500 ft<sup>3</sup>/s.

c Maximum gage height recorded, 6.43 ft, May 24, 1984.

## 09063200 WEARYMAN CREEK NEAR RED CLIFF, CO

 $LOCATION.--Lat~39^\circ 31'20", long~106^\circ 19'23", in~SE^1/_4SW^1/_4~sec.15,~T.6~S.,~R.80~W.,~Eagle~County,~Hydrologic~Unit~14010003, on~right~bank~0.15~mi~upstream~from~mouth,~2.25~mi~east~of~Red~Cliff.$ 

DRAINAGE AREA.--9.53 mi<sup>2</sup>.

 $PERIOD\ OF\ RECORD. --October\ 1964\ to\ current\ year.\ For\ a\ complete\ listing\ of\ historical\ data\ available\ for\ this\ site,\ see\ http://waterdata.usgs.gov/co/nwis/inventory/\\ ?site\_no=09063200$ 

GAGE.--Water-stage recorder. Elevation of gage is 9,280 ft above NGVD of 1929, from topographic map. Prior to Aug. 7, 1992, at site 0.25 mi upstream, at different datum. REMARKS.--Records fair except for estimated daily discharges and the period July 29 to Sept. 30, which are poor. No regulation or diversion upstream from station.

					R YEAR OC		ET PER SECO TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	2.2 2.4 2.3 2.3 2.3	e1.7 e1.7 e1.7 e1.6 e1.6	e1.3 e1.3 e1.3 e1.3	e1.2 e1.2 e1.1 e1.2 e1.2	e1.2 e1.2 e1.2 e1.2 e1.2	e1.1 e1.2 e1.1 e1.1	e1.5 e1.6 e1.6 e1.7	2.8 2.9 3.4 4.1 5.0	20 19 20 19 20	12 11 11 11 10	4.5 4.5 4.3 4.0 4.0	2.2 2.1 2.0 2.3 2.5
6 7 8 9 10	2.2 2.2 2.1 2.1 2.2	e1.6 e1.6 e1.6 e1.6 e1.6	e1.3 e1.3 e1.3 e1.3	e1.2 e1.2 e1.2 e1.2 e1.1	e1.2 e1.2 e1.2 e1.2 e1.2	e1.1 e1.1 e1.2 e1.2	e1.9 1.9 2.0 2.1 1.9	6.0 7.0 7.9 8.6 8.9	22 26 27 27 28	9.6 9.2 8.9 8.5 8.3	3.9 3.7 3.6 3.5 3.4	2.3 2.2 2.1 2.0 2.0
11 12 13 14 15	2.5 2.2 2.1 2.0 2.0	e1.6 e1.5 e1.6 e1.5 e1.5	e1.3 e1.2 e1.2 e1.2 e1.2	e1.2 e1.2 e1.2 e1.2 e1.2	e1.2 e1.2 e1.2 e1.2 e1.2	e1.2 e1.2 e1.3 e1.3	e1.7 e1.8 2.1 2.1 2.2	10 10 9.3 8.7 8.3	28 26 26 24 23	8.0 7.8 7.6 7.2 7.2	3.3 3.2 3.1 3.1 3.0	2.0 1.9 1.9 1.8 2.0
16 17 18 19 20	2.0 2.0 2.0 2.0 e2.0	e1.5 e1.5 e1.5 e1.4 e1.4	e1.2 e1.2 e1.2 e1.2 e1.2	e1.2 e1.2 e1.2 e1.2 e1.2	e1.1 e1.1 e1.1 e1.1	e1.2 e1.2 e1.3 e1.3	2.4 2.6 2.7 2.6 2.6	8.4 8.9 9.7 11 12	23 22 21 20 19	7.0 7.0 6.8 6.5 6.4	3.0 3.2 3.5 4.7 3.7	2.0 1.9 1.9 2.2 2.6
21 22 23 24 25	e1.9 e1.9 e1.9 e1.9 e1.8	e1.4 e1.4 e1.3 e1.3	e1.2 e1.2 e1.2 e1.2 e1.2	e1.2 e1.2 e1.1 e1.1 e1.2	e1.1 e1.1 e1.2 e1.1	e1.3 e1.4 e1.4 e1.3 e1.4	2.5 2.6 2.3 2.3 2.4	12 13 13 15 16	19 18 17 17 16	6.2 6.1 5.9 5.6 5.3	3.5 3.4 3.3 3.1 2.9	2.8 2.6 2.6 2.7 2.6
26 27 28 29 30 31	e1.8 e1.8 e1.8 e1.7 e1.7	e1.3 e1.3 e1.3 e1.3	e1.2 e1.2 e1.2 e1.2 e1.2 e1.2	e1.2 e1.2 e1.2 e1.2 e1.2 e1.2	e1.1 e1.2 e1.1	e1.5 e1.5 e1.4 e1.3 e1.4 e1.4	2.4 2.6 2.7 2.8 2.9	16 18 19 19 19 20	15 15 13 13 14	5.3 5.3 5.2 4.9 4.8 4.7	2.8 2.7 2.7 2.6 2.4 2.3	2.5 2.3 2.3 2.4 2.5
TOTAL MEAN MAX MIN AC-FT	63.0 2.03 2.5 1.7 125	44.6 1.49 1.7 1.3 88	38.3 1.24 1.3 1.2 76	36.8 1.19 1.2 1.1 73	33.6 1.16 1.2 1.1 67	39.2 1.26 1.5 1.1 78	66.1 2.20 2.9 1.5 131 VATER YEAR	332.9 10.7 20 2.8 660	617 20.6 28 13 1,220	230.3 7.43 12 4.7 457	104.9 3.38 4.7 2.3 208	67.2 2.24 2.8 1.8 133
MEAN MAX (WY) MIN (WY)	2.74 5.02 (1985) 1.59 (2003)	1.93 2.86 (1985) 1.21 (2003)	1.56 2.48 (1985) 1.04 (2003)	1.35 1.95 (1985) 0.87 (1992)	1.27 1.80 (1985) 0.45 (1967)	1.38 2.28 (1985) 0.80 (1965)	2.22 4.66 (1985) 1.13 (1968)	12.8 34.4 (1984) 4.96 (1995)	43.9 90.2 (1984) 12.8 (2002)	20.1 55.5 (1995) 3.98 (2002)	6.52 17.4 (1984) 2.11 (2002)	3.75 9.57 (1984) 1.82 (2002)
SUMMAI	RY STATIST	TCS		FOR 2003 C	CALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 19	965 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCI 50 PERCI		MEAN AN AN AN AN AN AN AM AM AM AM AGE AC-FT) DS DS	М	5,71 2	7.88 5 Jun 0.82 Feb 0.85 Feb	7	3,32	4.57  28 Jur e1.1 Jar 1.1 Fet 29 Jur 2.19 Jur	110 13 16 17	a	0.30 0.40 155	1984 2002 Jun 20, 1983 Feb 21, 1967 Feb 8, 1967 Jun 20, 1983 Jun 20, 1983

e Estimated.

a Site and datum then in use.

## 09063400 TURKEY CREEK NEAR RED CLIFF, CO

 $LOCATION.--Lat~39^\circ31'22'', long~106^\circ20'08'', in~NW^{1}_{4}SW^{1}_{4}~sec.16,~T.6~S.,~R.80~W.,~Eagle~County,~Hydrologic~Unit~14010003, on~right~bank~400~ft~downstream~from~Lime~Creek,~1.9~mi~northeast~of~Red~Cliff,~and~2.0~mi~upstream~from~mouth.$ 

DRAINAGE AREA.--23.8 mi<sup>2</sup>.

OCT

6.3

DAY

1

PERIOD OF RECORD.--October 1963 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=09063400

REVISED RECORDS .-- WDR CO-88-2: Drainage area.

NOV

5.0

DEC

3.7

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 8,918 ft above NGVD of 1929, from topographic map.

FEB

2.7

REMARKS.--Records good except for estimated daily discharges, which are poor. No diversion upstream from station.

JAN

3.1

## DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

APR

6.2

MAY

12

JUN

45

JUL

25

AUG

11

SEP

6.2

MAR

2.4

e5.2 3.7	3.2	2.7	2.4	6.6	12	43	24	11	6.2
e5.1 3.6	3.2	2.8	2.4	6.8	14	43	23	10	6.0
4.2 3.6	3.1	2.7	2.4	6.8	18	45	22	10	6.6
4.5 e3.6	e3.1	2.7	2.4	7.2	23	48	22	9.8	7.0
4.6 e3.6	e3.2	2.7	2.4	7.1	29	53	21	9.5	6.5
4.7 e3.5	e3.1	2.7	2.4	7.5	36	60	21	9.1	6.1
4.6 e3.5	e3.1	2.7	2.5	8.0	40	68	20	8.9	6.0
4.5 e3.5	3.1	2.6	2.7	8.1	42	72	19	8.6	5.8
4.8 e3.5	3.0	2.6	2.8	7.6	44	74	18	8.5	5.9
4.5 e3.5	3.0	2.6	2.8	7.2	49	71	18	8.3	5.8
4.3 3.5	3.1	2.5	2.8	7.2	49	64	17	8.2	5.7
4.7 3.7	3.0	2.4	2.9	7.4	43	59	16	7.9	5.5
4.7 3.6	2.9	2.4	3.0	7.9	38	54	16	7.9	5.4
4.3 3.5	e3.0	2.4	2.9	8.5	33	51	17	7.8	5.4
e4.4 e3.6	e3.1	2.4	2.7	9.4	31	49	16	7.7	5.2
e4.4 e3.4	e3.0	2.4	2.8	11	30	47	17	8.2	5.1
e4.2 e3.4	e3.0	2.5	2.9	11	31	45	16	8.4	5.2
e4.2 e3.4	e3.0	2.4	3.2	11	37	41	15	10	5.6
4.4 e3.3	e2.9	2.4	3.8	11	46	39	16	8.6	6.1
4.3 e3.3	e2.9	2.4	4.3	10	51	40	14	8.0	6.5
e4.2 e3.3	e3.0	2.4	4.7	9.7	47	36	14	8.0	6.2
e4.0 3.2	e2.9	2.4	4.9	9.1	47	33	13	7.7	6.0
e4.0 e3.3	e2.9	2.4	4.9	8.9	48	30	13	7.3	6.1
e3.9 e3.3	e2.9	2.4	5.4	8.3	49	29	12	7.1	6.0
e3.8 e3.2 3.8 e3.2 3.8 a3.2 3.8 e3.2 3.8 e3.3 3.2	3.0 2.9 2.9 2.8 2.8 2.8	2.4 2.4 2.4 2.4	5.8 5.8 e5.6 e5.4 e5.7 5.9	7.9 8.6 9.8 11 12	49 49 51 53 51 48	28 27 26 26 27	12 12 12 12 12 12	6.9 6.9 6.7 6.6 6.5 6.3	5.8 5.5 5.5 5.7 6.2
30.7 106.5	93.0	72.9	113.0	258.8	1,200	1,373	516	257.4	176.8
4.36 3.44	3.00	2.51	3.65	8.63	38.7	45.8	16.6	8.30	5.89
5.2 3.7	3.2	2.8	5.9	12	53	74	25	11	7.0
3.8 3.2	2.8	2.4	2.4	6.2	12	26	11	6.3	5.1
59 211	184	145	224	513	2,380	2,720	1,020	511	351
Y MEAN DATA FO	OR WATER YI	EARS 1964	2004, BY W	ATER YEAR	R (WY)				
4.58     3.64       9.19     5.76       985)     (1985)       2.84     2.52       978)     (2003)	3.19	3.00	3.50	7.76	47.9	116	44.9	13.6	7.90
	4.96	4.64	6.36	23.1	103	274	139	39.1	19.8
	(1985)	(2000)	(1985)	(1985)	(1984)	(1984)	(1995)	(1984)	(1984)
	1.92	1.00	2.10	2.66	17.8	31.3	11.0	5.82	4.23
	(1987)	(1964)	(1981)	(1973)	(1995)	(2002)	(1977)	(2002)	(1977)
	FOR 2003 CA	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 196	54 - 2004
N INIMUM , T)	23. 272 2. 2. 2. 16,790 67 5.	Jun 0 Feb 1 Feb	7	7 7 8,86	74 Jun 2.4 Feb 2.4 Feb 78 Jun 50 60 60 60 5.8	13 19 19	b5	a1.0 J 1.0 J 556 J d2.87 J 310 65 5.8	1984 2002 un 17, 1965 an 21, 1964 an 21, 1964 un 8, 1985 un 8, 1985
	55.1 3.6 4.2 3.6 4.5 e3.6 4.5 e3.6 4.7 e3.5 4.6 e3.5 4.5 e3.5 4.5 e3.5 4.8 e3.5 4.7 3.7 4.7 3.6 4.3 3.5 4.7 3.7 4.7 3.6 4.3 a3.5 4.4 e3.4 4.2 e3.4 4.4 e3.4 4.2 e3.4 4.4 e3.3 4.3 e3.3 4.3 e3.3 4.3 e3.3 4.1 e3.3 4.2 e3.4 4.3 e3.3 4.3 e3.3 4.3 e3.3 4.1 e3.3 4.2 e3.4 4.3 e3.3 4.3 e3.3 4.4 e3.6 4.5 e3.6 4.6 e3.6 4.7 a3.6 4.7 a3.6 4.8 e3.6 4.9 e3.1 4.9 e3.3 4.1 e3.3 4.2 e3.3 4.3 e3.3	55.1 3.6 3.2 4.2 3.6 3.1 4.5 e3.6 e3.1 4.5 e3.6 e3.1 4.6 e3.5 e3.1 4.6 e3.5 e3.1 4.5 e3.5 3.1 4.5 e3.5 3.1 4.5 e3.5 3.1 4.5 e3.5 3.0 4.5 e3.5 3.1 4.7 3.7 3.0 4.7 3.6 2.9 4.3 3.5 e3.0 e3.1 4.7 3.7 3.0 4.7 3.6 2.9 4.3 3.5 e3.0 e3.1 4.4 e3.6 e3.1 e3.0 e3.4 e3.0 e3.1 e3.0 e3.0 e3.0 e3.1 e3.0 e3.0 e3.0 e3.0 e3.0 e3.1 e3.0 e3.0 e3.0 e3.0 e3.0 e3.0 e3.0 e3.0	55.1 3.6 3.2 2.8 4.2 3.6 3.1 2.7 4.5 e3.6 e3.1 2.7 4.5 e3.6 e3.1 2.7 4.6 e3.6 e3.2 2.7 4.7 e3.5 e3.1 2.7 4.6 e3.5 e3.1 2.7 4.6 e3.5 e3.1 2.7 4.5 e3.5 3.0 2.6 4.8 e3.5 3.0 2.6 4.8 e3.5 3.0 2.6 4.3 3.5 3.1 2.5 4.7 3.6 2.9 2.4 4.3 3.5 e3.0 2.4 4.7 3.6 2.9 2.4 4.3 3.5 e3.0 2.4 4.4 e3.6 e3.1 2.4 e3.4 e3.0 2.4 e4.4 e3.4 e3.0 2.4 e4.4 e3.4 e3.0 2.5 e3.4 e3.0 2.4 e3.0 2.4 e3.3 e2.9 2.4 e3.3 e3.0 2.4 e3.0 2.5 e3.0 e3.0 e3.0 2.5 e3.0 e3.0 e3.0 e3.0 e3.0 e3.0 e3.0 e3.0	55.1 3.6 3.2 2.8 2.4 4.2 3.6 3.1 2.7 2.4 4.5 e3.6 e3.1 2.7 2.4 4.5 e3.6 e3.1 2.7 2.4 4.5 e3.6 e3.1 2.7 2.4 4.6 e3.5 e3.1 2.7 2.4 4.6 e3.5 e3.1 2.7 2.4 4.5 e3.5 3.1 2.7 2.4 4.5 e3.5 3.1 2.7 2.4 4.8 e3.5 3.1 2.6 2.7 2.5 4.8 e3.5 3.0 2.6 2.8 4.5 e3.5 3.0 2.6 2.8 4.3 3.5 3.1 2.5 2.8 4.7 3.7 3.0 2.4 2.9 2.4 3.0 2.4 2.9 2.4 3.0 2.4 2.9 2.4 3.0 2.4 2.9 2.4 3.0 2.4 2.9 2.4 3.0 2.4 2.9 2.4 3.0 2.4 2.9 2.4 3.0 2.4 2.9 2.4 3.0 2.5 2.9 2.4 3.0 2.5 2.9 2.4 3.0 2.5 2.9 2.4 3.0 2.5 2.9 2.4 3.8 4.2 e3.4 e3.0 2.4 2.8 4.2 e3.4 e3.0 2.5 2.9 2.4 3.8 4.2 e3.3 e2.9 2.4 3.8 4.2 e3.3 e2.9 2.4 3.8 4.2 e3.3 e2.9 2.4 4.9 e3.0 2.5 2.9 2.4 4.9 e3.0 2.5 2.9 2.4 4.9 e3.0 2.4 2.9 2.4 4.9 e3.0 2.5 2.9 2.4 4.9 e3.0 2.4 2.9 2.4 4.9 e3.0 2.5 2.9 2.4 4.9 e3.0 2.4 2.9 2.4 4.9 e3.0 2.4 2.9 2.4 4.9 e3.0 2.5 2.9 2.4 4.9 e3.0 2.4 2.9 2.4 4.9 e3.0 2.5 2.9 2.4 4.9 e3.3 e2.9 2.4 4.9 e3.6 e3.8 e3.2 2.9 2.4 5.8 e3.8 e3.2 2.9 2.4 5.8 e3.8 e3.2 2.9 2.4 5.8 e3.8 e3.2 2.9 2.4 2.4 2.4 2.9 e5.6 3.8 e3.2 2.9 2.4 2.4 2.4 2.4 2.5 2.1 2.9 2.4 2.4 2.4 2.5 2.1 2.9 2.4 2.8 2.4 2.4 2.4 2.5 2.1 2.9 2.4 2.8 2.4 2.4 2.4 2.5 2.1 2.9 2.1 1.00 2.10 978) 113.0 2.10 184 145 224 2.4 2.4 2.5 2.1 184 145 224 2.4 2.4 2.5 2.1 192 1.00 2.10 1985) 11985) (1985)	15.1 3.6 3.2 2.8 2.4 6.8 4.2 3.6 3.1 2.7 2.4 6.8 4.2 3.6 3.1 2.7 2.4 7.2 4.4 5.8 3.6 e3.1 2.7 2.4 7.2 4.5 6.8 4.5 e3.6 e3.1 2.7 2.4 7.2 4.7 2.4 4.6 e3.5 e3.1 2.7 2.4 7.5 4.6 e3.5 e3.1 2.7 2.4 7.5 4.6 e3.5 e3.1 2.7 2.5 8.0 4.5 e3.5 3.1 2.6 2.7 8.1 4.5 e3.5 3.0 2.6 2.8 7.6 4.5 e3.5 3.0 2.6 2.8 7.6 4.5 e3.5 3.1 2.5 2.8 7.2 4.7 3.7 3.0 2.6 2.8 7.2 4.7 3.7 3.0 2.6 2.8 7.2 4.7 3.7 3.0 2.4 2.9 7.4 4.7 3.7 3.6 2.9 2.4 3.0 7.9 8.5 4.4 e3.6 e3.1 2.4 2.9 7.4 4.3 3.5 e3.0 2.4 2.9 8.5 e3.4 e3.0 2.4 2.9 11 e3.4 e3.0 2.4 2.9 2.4 3.8 11 e3.0 e3.3 e2.9 2.4 4.9 9.1 e3.3 e2.9 2.4 4.9 9.1 e3.3 e2.9 2.4 4.9 9.1 e3.3 e2.9 2.4 4.9 8.9 e3.3 e2.9 2.4 5.8 8.6 e3.3 2.2 e2.9 2.4 4.9 8.9 e3.3 e2.9 2.4 5.8 8.6 e3.3 2.2 e2.9 2.4 5.8 8.6 e3.2 2.9 2.4 5.8 8.6 e3.3 2.2 2.9 2.4 5.8 8.6 e3.3 2.2 2.9 2.4 5.8 8.6 e3.3 2.2 2.9 2.4 5.8 8.6 e3.2 2.9 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	15.1	15.1 3.6 3.2 2.8 2.4 6.8 14 43 4.2 3.6 3.1 2.7 2.4 6.8 18 45 4.5 e3.6 e3.1 2.7 2.4 7.2 23 48 4.6 e3.6 e3.1 2.7 2.4 7.2 23 48 4.6 e3.6 e3.2 2.7 2.4 7.1 29 53 4.7 e3.5 e3.1 2.7 2.4 7.5 36 60 4.6 e3.5 e3.1 2.7 2.5 8.0 40 68 4.5 e3.5 3.1 2.6 2.7 8.1 42 72 4.8 e3.5 3.0 2.6 2.8 7.6 44 74 4.5 e3.5 3.1 2.6 2.7 8.1 42 72 4.8 e3.5 3.0 2.6 2.8 7.6 44 74 4.7 3.7 3.0 2.6 2.8 7.2 49 71 4.3 3.5 3.1 2.5 2.8 7.2 49 64 4.7 3.7 3.0 2.4 2.9 7.4 43 59 4.7 3.6 2.9 2.4 3.0 7.9 38 54 4.3 3.5 6.3 2.4 2.9 8.5 33 51 4.4 e3.6 e3.1 2.4 2.7 9.4 31 49 4.4 e3.6 e3.1 2.4 2.7 9.4 31 49 4.4 e3.4 e3.0 2.4 2.8 11 30 47 4.4 e3.4 e3.0 2.4 2.8 11 30 47 4.4 e3.3 e3.3 e2.9 2.4 3.8 11 46 39 4.3 e3.3 e2.9 2.4 3.8 11 46 39 4.3 e3.3 e2.9 2.4 4.8 11 30 47 4.4 e3.3 e3.3 e2.9 2.4 4.8 11 30 47 4.4 e3.3 e3.3 e2.9 2.4 4.8 11 30 47 4.9 e3.3 e3.9 2.9 2.4 3.8 11 4.0 3.2 e2.9 2.4 4.9 9.1 47 36 4.0 3.2 e2.9 2.4 4.9 8.9 48 30 4.0 3.2 e2.9 2.4 4.9 8.9 48 30 4.0 3.2 e2.9 2.4 4.9 8.9 48 30 4.0 3.3 e2.9 2.4 5.8 8.6 49 27 3.8 3.2 2.9 2.4 5.8 8.6 49 27 3.8 3.2 2.9 2.4 5.8 8.6 49 27 3.8 3.2 2.9 2.4 5.8 8.6 49 27 3.8 3.2 2.9 2.4 5.8 8.6 49 27 3.8 3.2 2.9 2.4 5.8 8.6 49 27 3.8 3.2 2.9 2.4 5.8 8.6 49 27 3.8 3.2 2.9 2.4 5.8 8.6 49 27 3.8 3.2 2.9 2.4 5.8 8.6 49 27 3.8 3.2 2.9 2.4 5.8 8.6 49 27 3.8 3.2 2.9 2.4 5.8 8.6 49 27 3.8 3.2 2.9 2.4 5.8 8.6 49 27 3.8 3.2 2.9 2.4 5.8 8.6 49 27 3.8 3.2 2.9 2.4 5.8 8.6 49 27 3.8 3.2 2.9 2.4 5.8 5.8 8.6 49 27 3.8 3.2 2.9 2.4 5.8 5.8 8.6 49 27 3.8 3.2 2.9 2.4 5.8 5.8 8.6 49 27 3.8 3.2 2.9 2.4 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8	.51	15.1   3.6   3.2   2.8   2.4   6.8   14   43   23   10     4.2   3.6   3.1   2.7   2.4   7.2   23   48   22   9.8     4.6   6.3.6   6.3.1   2.7   2.4   7.2   23   48   22   9.8     4.6   6.3.6   6.3.1   2.7   2.4   7.1   29   53   21   9.5     4.7   6.3.5   6.3.1   2.7   2.4   7.5   36   60   21   9.1     4.6   6.3.5   6.3.1   2.7   2.5   8.0   40   68   20   8.9     4.5   6.3.5   3.1   2.6   2.7   8.1   40   72   19   8.6     4.8   6.3.5   3.1   2.6   2.7   8.1   40   72   19   8.6     4.8   6.3.5   3.0   2.6   2.8   7.6   44   74   18   8.5     4.5   6.3.5   3.1   2.5   2.8   7.2   49   71   18   8.3     4.3   3.5   3.1   2.5   2.8   7.2   49   64   17   8.2     4.7   3.7   3.0   2.4   2.9   7.4   43   59   16   7.9     4.7   3.6   2.9   2.4   3.0   7.9   38   54   16   7.9     4.3   3.5   6.3.0   2.4   2.9   8.5   33   51   17   7.8     4.4   6.3.6   6.3.1   2.4   2.7   9.4   31   49   16   7.7     4.4   6.3.6   6.3   2.4   2.7   9.4   31   49   16   7.7     4.2   6.3.4   6.3.0   2.4   2.8   11   30   47   17   7.8     4.4   6.3.4   6.3.0   2.4   2.8   11   30   47   17   7.8     4.4   6.3.3   6.2.9   2.4   3.2   11   37   41   15   16   8.4     4.4   6.3.3   6.2.9   2.4   3.8   11   37   41   15   16   8.6     4.3   6.3   6.2.9   2.4   4.3   10   51   40   48     4.4   6.3.3   6.2.9   2.4   4.9   9.1   47   33   13   7.7     4.4   6.3.3   6.2.9   2.4   4.9   9.1   47   33   13   7.7     4.4   6.3.3   6.2.9   2.4   4.9   9.1   47   33   13   7.7     4.4   6.3.3   6.2.9   2.4   4.9   9.1   47   33   13   7.7     4.4   6.3.3   6.2.9   2.4   4.9   9.1   47   33   13   7.7     4.5   6.3

<sup>Also occurred Jan 22 to Feb 29, 1964.
From rating curve extended above 325 ft<sup>3</sup>/s.
Maximum gage height, 2.54 ft, Jun 11, backwater from debris.
Maximum gage height for period of record, 3.34 ft, Jun 1, 2003.</sup> 

## 09063900 MISSOURI CREEK NEAR GOLD PARK, CO

LOCATION.--Lat 39°23'25", long 106°28'10", Eagle County, Hydrologic Unit 14010003, on left bank 50 ft downstream from road culvert, 0.6 mi upstream from Fancy Creek, 2.2 mi southwest of Gold Park, and 10 mi southwest of Red Cliff.

DRAINAGE AREA.--6.39 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1972 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=09063900

REVISED RECORDS .-- WDR CO-88-2: Drainage area.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Elevation of gage is 9,980 ft above NGVD of 1929, from topographic map.

REMARKS .-- Records good except for the period Apr. 6-13 and estimated daily discharges, which are poor. Transmountain diversion upstream from station to Arkansas River Basin through Homestake Tunnel.

					DISCHARGE ER YEAR OC DAI		TO SEPTEM					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1.9 2.5 2.6 2.4 2.5	e0.68 e0.73 e0.76 e0.77 e0.76	e0.81 e0.81 e0.81 e0.81 e0.78	e0.75 e0.74 e0.70 e0.71 e0.73	e0.71 e0.71 e0.69 e0.68 e0.68	e0.66 e0.68 e0.68 e0.67	e4.2 e4.5 e4.6 e4.8 e4.8	6.9 8.6 10 8.3	5.0 5.0 5.6 8.0	8.8 8.0 7.7 7.5 7.2	e5.9 e5.0 e4.1 e4.6 e4.5	1.9 1.8 1.6 2.6 3.7
6 7 8 9 10	2.3 2.1 1.9 1.8 1.8	e0.76 e0.73 e0.75 e0.80 e0.84	e0.79 e0.81 e0.82 e0.82 e0.82	e0.73 e0.73 e0.72 e0.71 e0.67	e0.66 e0.69 e0.68 e0.68 e0.67	e0.67 e0.69 e0.74 e0.74 e0.83	e4.7 5.5 6.0 6.2 6.7	12 14 15 13 15	29 35 28 23 13	7.0 7.0 6.8 6.8 6.8	e4.6 e4.6 e4.4 e4.2 e3.9	3.5 3.3 2.8 2.4 2.8
11 12 13 14 15	3.0 2.3 1.8 1.5 1.4	e0.85 e0.88 e0.74 e0.85 e0.87	e0.82 e0.81 e0.81 e0.81	e0.72 e0.71 e0.66 e0.66 e0.66	e0.65 e0.64 e0.65 e0.67 e0.68	e0.84 e0.90 e1.0 e0.97 e0.92	6.8 6.3 6.2 6.1 6.1	13 9.4 7.3 6.7 6.0	7.2 6.3 7.0 14 14	6.6 6.6 6.2 6.3	e3.9 e3.7 e3.6 e3.4 e3.2	2.9 2.5 2.2 1.9 1.7
16 17 18 19 20	1.3 1.3 1.3 1.3 1.2	e0.85 e0.82 e0.80 e0.80 e0.80	e0.81 e0.80 e0.80 e0.78 e0.78	e0.71 e0.71 e0.72 e0.72 e0.73	e0.67 e0.65 e0.68 e0.68 e0.66	e0.88 e0.84 e0.95 e1.1 e1.4	6.6 7.7 6.9 6.1 5.5	6.3 6.8 8.0 16 18	9.9 9.4 9.5 9.2 9.1	6.5 6.6 6.4 6.3 6.2	e3.2 e3.2 e4.0 e8.7 e8.8	1.6 1.5 1.4 2.1 3.3
21 22 23 24 25	1.2 1.2 1.1 1.0 0.96	e0.80 e0.80 e0.80 e0.80 e0.80	e0.78 e0.82 e0.77 e0.77	e0.73 e0.72 e0.69 e0.69 e0.69	e0.66 e0.66 e0.66 e0.66	e1.9 e2.4 e2.9 e2.9 e3.4	5.1 4.5 4.1 3.8 4.0	14 8.8 6.7 6.6 6.5	9.6 9.0 8.3 8.2 8.3	6.0 5.8 6.0 6.0 5.7	e7.6 e7.3 e7.6 7.8 1.8	3.8 4.7 4.9 4.6 5.3
26 27 28 29 30 31	1.0 1.0 0.99 0.94 0.84 0.65	e0.80 e0.80 e0.80 e0.80	e0.76 e0.77 e0.77 e0.75 e0.76 e0.75	e0.73 e0.72 e0.73 e0.72 e0.71 e0.68	e0.66 e0.66 e0.68	e4.0 e3.9 e3.3 e3.0 e3.0 e3.6	4.1 5.6 7.8 7.5 7.5	6.3 6.2 12 10 6.4 5.4	8.7 8.4 8.0 8.0 8.6	5.8 5.9 e5.7 e5.8 e5.7 e5.9	1.8 2.9 2.8 2.5 2.2 2.0	5.5 5.1 4.7 4.7 6.3
TOTAL MEAN MAX MIN AC-FT	49.08 1.58 3.0 0.65 97	23.85 0.80 0.88 0.68 47	24.57 0.79 0.82 0.75 49	22.00 0.71 0.75 0.66 44	19.44 0.67 0.71 0.64 39	51.12 1.65 4.0 0.66 101	170.3 5.68 7.8 3.8 338	299.2 9.65 18 5.4 593	349.3 11.6 35 5.0 693	202.2 6.52 8.8 5.7 401	137.8 4.45 8.8 1.8 273	97.1 3.24 6.3 1.4 193
					YEARS 1972			` ′	20.0	40.0	0.55	4.00
MEAN MAX (WY) MIN (WY)	3.22 7.29 (1985) 0.84 (1980)	1.81 3.59 (1997) 0.61 (1977)	1.11 2.73 (1996) 0.35 (1977)	0.80 1.66 (1996) 0.31 (1976)	0.69 1.47 (1998) 0.28 (1977)	0.87 1.75 (1998) 0.37 (1979)	2.96 7.02 (1974) 0.71 (1983)	15.4 41.7 (1984) 4.00 (1983)	30.0 79.0 (1984) 8.72 (2002)	19.0 78.6 (1984) 5.77 (2002)	8.75 29.1 (1983) 2.22 (2002)	4.90 9.46 (1984) 1.65 (1974)
SUMMAI	RY STATIST	TICS		FOR 2003 (	CALENDAR	YEAR	FOR 200	)4 WATER Y	EAR	WATER	YEARS 197	2 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE 50 PERCE	MEAN ANNUAL MANNUAL MANNUAL ME DAILY ME DAILY ME	MEAN AN AN Y MINIMU! OW 'AGE AC-FT) DS DS	М	9 e 4,38 1	6.06  6 Jun 0.64 Feb 0.66 Mar	7	3	e0.64 Fel 0.66 Fel 72 Jui 2.67 Jui	n 7 o 12 o 11 n 7	b	e,a0.24 Fe 0.25 Fe 300 J	1984 2002 ul 10, 1984 eb 12, 1977 eb 7, 1977 ul 4, 1975 ul 4, 1975

e Estimated.

<sup>a Also occurred Feb 13, 1977.
b From rating curve extended above 35 ft<sup>3</sup>/s.
c Maximum gage height, 3.83 ft, Jul 30, 1983.</sup> 

## 09064000 HOMESTAKE CREEK AT GOLD PARK, CO

LOCATION .-- Lat 39°24'20", long 106°25'58", Eagle County, Hydrologic Unit 14010003, on left bank at Gold Park, 400 ft downstream from ford at Gold Park Campground, 0.5 mi downstream from French Creek, and 8 mi southwest of Red Cliff.

PERIOD OF RECORD.--October 1947 to September 1954, August 1972 to current year. Statistical summary computed for 1973 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09064000

REVISED RECORDS.--WDR CO-88-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,200 ft above NGVD of 1929, from topographic map. Prior to Aug. 1, 1972, water-stage recorder at site 1,500 ft upstream at datum 9,245 ft above NGVD of 1929, (river-profile survey).

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Homestake Lake (capacity, 44,360 acre-ft) since June 7, 1966. Transmountain diversion upstream from station to Arkansas River Basin through Homestake Tunnel since June 6, 1967

#### DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES NOV DEC JUN ш SEP DAY OCT JAN **FEB** MAR APR MAY AUG 20 3.6 e5.4 e3.5 e2.8 e2.8 24 29 9.0 19 3.8 e5.5 e3.4 e2.8 e2.8 20 26 21 27 19 3 18 4.0 e5.6 e3.3 e2.8 e2.9 19 32 21 25 14 7.8 e5.5 e5.5 e3.3 e3.2 e2.9 e2.9 e2.9 e2.9 24 24 4 97 4.0 19 35 15 8.2 43 35 9.6 11 4.1 18 14 6 9.6 3.8 e5.5 e3.2 e2.9 e3.0 18 48 56 24 14 11 90 3.8 e5.5 e3.1 e2.9 e3.0 19 52 68 23 13 11 23 53 8 84 40 e5.5 e3 1 e2.9e3.1 19 54 12 11 e5.5 e2.9 20 51 43 23 8.0 4.4 e3.1 e3.1 11 10 54 10 7.4 4.9 e5.7 e3.0 e2.9 e3.6 19 33 23 9.9 9.2 23 24 9.2 9.2 5.2 5.5 e5.7 e5.7 e3.0 e2.9 e2.9 e2.9 53 9.4 8.7 11 11 e3.8 22 23 20 e3.9 17 40 9.0 12 7.8 4.2 e5.7 e2.9 e2.9 17 30 19 26 8.7 13 e4.3 8.3 e5.7 e2.9 e2.9 25 25 7.7 e4.8 26 6.6 15 5.5 e5.7 e2.9 e2.9 e4.8 20 23 31 25 7.4 7.5 6.1 5.8 5.5 e5.7 e2.9 e2.9 22 22 27 26 7.2 7.2 16 e4.8 5.2 e2.9 27 23 5.8 e5.7 e2.8 e4.7 26 27 7.3 7.0 17 e5.2 e5.7 e2.9 e2.8 4.8 27 25 26 27 8.6 6.8 19 e5.2 e5.7 e2.9 e2.8 24 22 37 27 25 25 7.0 9.5 5 5 45 25 26 20 e5.3 e5.6 e2.9 e2.8 8.6 21 5.5 e5.5 e5.5 e2.9 13 20 40 27 26 19 11 e2.8 22 5.5 e5.5 e5.4 e2.9 e2.8 17 18 33 26 25 18 13 26 25 23 5.4 e5.4 e5.2 e2.9 e2.9 19 16 24 25 18 13 24 24 26 e2.9 e5.4 e5.1 e2.9 6.2 19 16 19 13 24 25 e2.9 24 25 14 e5.5 e5.0 e2.8 22 16 14 13 26 14 e5.5 e4.8 e2.9 e2.9 23 16 24 26 25 11 13 27 28 e5.3 e5.3 e2.9 e2.9 e2.9 e2.9 22 21 24 27 26 25 15 13 e4.6 21 29 26 25 11 13 13 e4.3 11 29 5.1 e5.3 e4.1 e2.9 e2.9 32 32 26 24 16 13 11 4.2 e2.9 27 e5.3 e3.9 13 30 28 24 31 3.8 e3.7 e2.9 17 24 24 9.7 TOTAL 279.4 146.3 163.7 93.2 83.1 282.7 621 1,047 881 776 412.2 305.6 2.87 2.9 9.12 MEAN 9.01 4.88 5.28 3.01 20.7 33.8 29.4 25.0 13.3 10.2 20 5.5 54 29 MAX 23 32 68 25 14 MIN 3.8 3.6 37 2.9 2.8 2.8 16 22 19 23 72 6.8 325 185 818 606 AC-FT 554 290 165 561 1 230 2.080 1,750 1.540 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 -2004, BY WATER YEAR (WY) MEAN 9.56 7.04 5.76 5 38 93.3 30.6 137 6.47 156 65.0 57.6 168 MAX 31.4 15.2 13.8 10.9 10.3 12.4 33.8 211 310 243 121 34.8 (WY) (1989)(1995)(1984)(1985)(1991)(1986)(1986)(1986)(1989)(1984)(1984)(1983)MIN 6.15 $4.3^{\circ}$ 2.165.50 29.729.4(WY) (1990)(1990)(1976)(1976)(1976)(1976)(1983)(1977)(2004)(2002)(2002)(1977)SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1973 - 2004 ANNUAL TOTAL 7,840.0 5,091.2 ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN 21.5 13.9 a27.3 79.2 1984 13.9 2004 HIGHEST DAILY MEAN 306 May 29 68 b602 Jun 30, 1984 Jun LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM e2.9 Feb 12 e2.8 2.8 Feb 1.8 Feb 5, 1976 Jan 31, 1976 3.0 1.9 Feb 6 Feb 16 MAXIMUM PEAK FLOW 132 c930 Jun 30, 1984 Jun MAXIMUM PEAK STAGE 4.78 d6.21 Jun 30, 1984 Jun ANNUAL RUNOFF (AC-FT) 15,550 10,100 19,800 10 PERCENT EXCEEDS 40 2.7 61 50 PERCENT EXCEEDS 96 94 12

90 PERCENT EXCEEDS

3.4

h

4.4

Estimated.

Average discharge for 7 years (water years 1948-54), 63.4 ft<sup>3</sup>/s, 45,930 acre-ft/yr, prior to diversion through Homestake Tunnel. Maximum daily discharge for period of record, 755 ft<sup>3</sup>/s, Jun 21, 1951.

Maximum discharge and stage for period of record, 1,080 ft<sup>3</sup>/s, Jun 13, 1953, gage height, 6.84 ft, site and datum then in use from rating curve extended above 700 ft<sup>3</sup>/s.

Maximum gage height for statistical period, 6.31 ft, Apr 5, 1978, backwater from ice.

## 09064500 HOMESTAKE CREEK NEAR RED CLIFF, CO

 $LOCATION.--Lat~39^{\circ}28'24", long~106^{\circ}22'02", in~NE^{1}_{4}NE^{1}_{4}~sec.6, T.7~S., R.80~W., Eagle~County, \\ Hydrologic~Unit~14010003, on~right~bank~at~downstream~side~of~Forest~Service~road~bridge, 2.4~mi~south~of~Red~Cliff, and 3.0~mi~upstream~from~mouth.$ 

DRAINAGE AREA.--58.2 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1910 to September 1918, May 1944 to current year. Published as "at Redcliff" October 1910 to September 1916. Statistical summary computed for 1967 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09064500

REVISED RECORDS .-- WDR CO-88-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 8,783 ft above NGVD of 1929 (river-profile survey). See WSP 1713 or 1733 for history of changes prior to May 8, 1961.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by Homestake Lake (capacity, 44,360 acre-ft) since June 7, 1966. Transmountain diversions upstream from station through Homestake Tunnel (see elsewhere in this report) since June 6, 1967.

					R YEAR OC	E, CUBIC FEE TOBER 2003 LY MEAN V	TO SEPTEM					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	25 26 29 18 15	6.9 8.2 11 11 9.0	e7.3 e7.1 e6.8 e6.8 e6.8	e5.3 e5.0 e5.0 e5.0 e5.0	e5.0 e5.1 e5.1 e5.1 e5.2	e5.2 e5.1 e5.2 e5.2 e5.2	e49 e54 e56 e56 e56	58 59 75 83 98	46 41 44 47 54	47 40 37 34 33	27 27 18 19 20	9.0 8.4 7.7 8.5 14
6 7 8 9 10	14 13 13 12 13	11 11 11 9.5 12	e6.8 e6.8 e6.8 e6.8	e5.0 e5.0 e5.0 e5.2 e5.1	e5.2 e5.4 e5.2 e5.2 e5.2	e5.2 e5.2 e5.2 e5.4 e5.4	e56 59 64 69 60	110 117 119 118 114	78 98 96 75 68	34 32 31 31 30	22 20 18 16 14	14 12 11 9.8 10
11 12 13 14 15	16 17 13 12 12	12 11 12 12 12	e6.8 e6.8 e7.0 e7.0 e7.0	e5.3 e5.2 e5.2 e5.1 e5.1	e5.1 e5.3 e5.4 e5.3	e5.4 e5.4 e5.6 e5.8 e6.1	53 53 51 54 57	135 105 81 66 58	49 45 42 42 52	29 28 30 30 31	13 12 11 12 12	11 9.9 10 9.8 11
16 17 18 19 20	11 11 11 11 10	11 e11 e9.8 e10 e9.4	e7.0 e6.9 e7.2 e7.2 e7.2	e5.0 e5.0 e5.0 e5.0 e5.1	e5.1 e5.4 e5.3 e5.2	e6.2 e5.9 e6.2 e10 e17	59 66 67 58 56	58 64 66 81 101	47 45 47 45 43	36 43 38 39 35	13 11 13 31 34	11 12 13 15 21
21 22 23 24 25	10 9.8 9.6 9.1 14	e9.1 e8.3 e7.5 e6.8 e7.2	e7.2 e7.2 e7.2 e7.2 e7.0	e5.1 e5.0 e5.0 e5.0 e5.0	e5.1 e5.1 e5.1 e5.1 e5.0	e23 e28 e30 e30 e33	53 50 46 43 49	96 83 63 58 55	45 45 40 37 35	34 33 32 37 32	23 22 24 21 19	26 31 28 27 26
26 27 28 29 30 31	18 21 20 14 9.0 7.2	e7.3 e6.5 e6.2 e6.7 e7.0	e6.5 e6.2 e5.9 e5.6 e5.5 e5.3	e4.9 e5.0 e5.0 e5.2 e5.0 e5.0	e5.0 e5.0 e5.1 e5.2	e39 e40 e40 e39 e36 e43	49 54 66 72 72	55 54 55 69 63 54	41 41 38 39 48	32 39 33 30 30 29	11 11 12 11 10 9.4	26 23 21 21 25
TOTAL MEAN MAX MIN AC-FT	443.7 14.3 29 7.2 880	283.4 9.45 12 6.2 562	209.7 6.76 7.3 5.3 416	156.8 5.06 5.3 4.9 311	149.7 5.16 5.4 5.0 297	506.9 16.4 43 5.1 1,010	1,707 56.9 72 43 3,390	2,471 79.7 135 54 4,900	1,513 50.4 98 35 3,000	1,049 33.8 47 28 2,080	536.4 17.3 34 9.4 1,060	482.1 16.1 31 7.7 956
MEAN MAX (WY) MIN (WY)	18.8 45.1 (1985) 8.59 (1976)	13.4 31.0 (1985) 5.30 (1967)	10.0 19.7 (1985) 4.66 (1989)	8.34 16.7 (1996) 3.19 (1987)	8.16 16.7 (1996) 2.93 (1987)	- 2004, BY W 10.7 22.5 (1989) 3.60 (1981)	37.3 73.1 (1986) 10.8 (1983)	125 358 (1984) 53.6 (1990)	141 439 (1984) 41.8 (2002)	70.6 313 (1984) 13.4 (2002)	36.2 136 (1983) 8.54 (1990)	22.3 42.3 (1984) 8.29 (1977)
ANNUAI ANNUAI HIGHEST LOWEST HIGHEST LOWEST ANNUAI MAXIMU MAXIMU ANNUAI 10 PERCI 50 PERCI	L MEAN	MEAN MEAN EAN AN YY MINIMUN OW PAGE AC-FT) DS DS	M	13,005 35 435 e <sup>2</sup> 5 25,800 84	5.6 5 Jun 1.8 Jan 5.3 Jan	1 15	9,50 11 22 18,80	5.0 Jai 27 May 3.00 May	y 11 n 26 n 22 y 12	; ; ; ;	b1.4 Se 1.7 Se 943 Ma 3.96 Ma	7 - 2004 1984 2002 y 25, 1984 p 6, 2002 p 2, 2002 y 24, 1984 y 24, 1984

Average discharge for 30 years (water years 1911-18, 1945-66), 86.6 ft<sup>3</sup>/s; 62,740 acre-ft/yr, prior to diversion through Homestake Tunnel.
 Minimum observed for period of record, 0.60 ft<sup>3</sup>/s, Jan 25, 1915 (discharge measurement).
 Maximum discharge and stage for period of record, 1,300 ft<sup>3</sup>/s, Jun 24, 1918, gage height, 6.20 ft, site and datum then in use.

## 09064600 EAGLE RIVER NEAR MINTURN, CO

 $LOCATION.--Lat~39^{\circ}33'14'', long~106^{\circ}24'07'', in~SW^{1}/_{4}SE^{1}/_{4}~of~unsurveyed~sec.~T.6~S.,~R.81~W.,~Eagle~County,~Hydrologic~Unit~14010003,~on~left~bank~500~ft~upstream~from~U.S.~Highway~24~bridge~and~2.5~miles~southeast~of~Minturn.$ 

DRAINAGE AREA.--186 mi<sup>2</sup>.

 $PERIOD\ OF\ RECORD. -- October\ 1989\ to\ current\ year.\ For\ a\ complete\ listing\ of\ historical\ data\ available\ for\ this\ site,\ see\ http://waterdata.usgs.gov/co/nwis/inventory/\\?site\_no=09064600$ 

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 8,078.37 ft above NGVD of 1929, from levels by private engineering firm.

REMARKS.—Records good except for estimated daily discharges, which are poor. Transmountain diversions upstream from station by Columbine, Ewing, and Wurtz Ditches. Transmountain diversion from Robinson Reservoir (capacity 2,520 acre-ft), for use in Tenmile Creek Basin. Several small diversions for irrigation upstream from station. No regulation.

					YEAR OC		ET PER SECC TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	30	e40	e26	e17	e18	e87	115	220	160	70	35
2	50	33	e39	e26	e17	e17	e101	113	210	138	67	34
3	53	40	e37	e24	e17	e18	e105	136	215	125	62	33
4	49	39	e36	e22	e19	e19	e101	170	226	119	56	34
5	42	34	e36	e19	e19	e19	e102	212	237	113	57	39
6	41	36	e39	e22	e19	e17	e100	257	277	116	61	40
7	39	37	e39	e24	e16	e17	101	286	315	107	57	37
8	38	37	e39	e23	e19	e18	107	300	319	102	52	35
9	37	36	e38	e21	e18	e19	118	310	294	98	49	33
10	37	39	e35	e20	e16	e19	104	310	283	96	45	33
11	43	40	e38	e19	e19	e18	90	346	243	94	43	33
12	42	36	e36	e17	e13	e19	90	316	219	89	41	33
13	39	40	e35	e16	e15	e19	87	263	202	88	39	32
14	37	43	e39	e19	e17	e20	93	223	197	88	38	31
15	35	42	e38	e21	e19	e21	99	197	207	90	38	30
16	34	37	e37	e19	e20	e20	105	189	199	94	36	29
17	34	40	e34	e17	e21	e20	117	196	190	120	40	28
18	33	39	e34	e17	e20	e21	122	200	190	109	45	28
19	33	46	e32	e18	e20	e22	112	246	182	115	83	30
20	33	45	e31	e21	e19	e25	107	295	171	105	88	35
21 22 23 24 25	33 32 32 31 30	44 41 35 e32 e36	e31 e30 e30 e30	e17 e17 e17 e17 e17	e19 e20 e17 e17 e20	e29 e34 e38 e47 e60	101 92 87 80 88	308 301 272 264 255	178 174 152 143 139	96 90 85 98 86	73 68 66 59 53	42 50 47 47 45
26 27 28 29 30 31	36 41 41 40 33 30	e39 e38 e37 e38 e40	e30 e29 e27 e27 e27 e27	e15 e17 e18 e18 e18 e18	e20 e21 e19 e19	e99 e108 e105 e87 e80 e79	88 94 113 125 131	248 249 256 280 268 241	144 144 137 136 166	80 95 85 77 74 75	45 42 42 41 39 37	43 41 39 39 45
TOTAL	1,177	1,149	1,051	600	532	1,152	3,047	7,622	6,109	3,107	1,632	1,100
MEAN	38.0	38.3	33.9	19.4	18.3	37.2	102	246	204	100	52.6	36.7
MAX	53	46	40	26	21	108	131	346	319	160	88	50
MIN	30	30	27	15	13	17	80	113	136	74	36	28
AC-FT	2,330	2,280	2,080	1,190	1,060	2,280	6,040	15,120	12,120	6,160	3,240	2,180
MEAN	44.6	38.2	30.9	27.3	26.8	32.8	93.6	384	480	180	80.4	53.6
MAX	68.8	47.8	44.6	41.8	42.3	54.4	175	726	962	661	186	73.8
(WY)	(1998)	(1996)	(1996)	(1996)	(1996)	(1997)	(1996)	(1996)	(1995)	(1995)	(1995)	(1995)
MIN	27.6	25.3	21.2	17.9	18.3	21.0	50.4	151	124	49.4	31.1	34.1
(WY)	(1990)	(1990)	(1990)	(1990)	(2004)	(2002)	(1991)	(2002)	(2002)	(2002)	(2002)	(2002)
SUMMAI	RY STATIST	TICS		FOR 2003 CA	LENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 199	0 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE 50 PERCE	. MEAN T ANNUAL M T ANNUAL M T DAILY ME T DAILY ME	MEAN AN AN Y MINIMUM OW 'CAGE AC-FT) DS DS	М	42,450 116 1,150 e22 23 84,200 340 43 24	Jun Jan Jan	15	34 e1 e1 37 56,09 20	77.3 46 May 13 Feb 17 Feb 74 Jun 4.27 Jun	12 7 8	1,: 1,8	11 De 16 Ja 310 Ju 6.75 Ju	1995 2002 In 18, 1995 Sec 9, 1994 In 4, 1990 In 18, 1995 In 18, 1995

e Estimated.

## 09065100 CROSS CREEK NEAR MINTURN, CO

mouth, and 1.5 mi southeast of Minturn.

DRAINAGE AREA.--34.2 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1956 to September 1963, October 1967 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09065100

REVISED RECORDS.--WDR CO-81-2: 1980 (M). WDR CO-88-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,992 ft above NGVD of 1929, from topographic map. Prior to July 18, 1956, nonrecording gage at site 0.3 mi downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Bolts Ditch exports water upstream from station to tailings ponds and recreation lake along Eagle River. Diversion 0.5 mi upstream from station for water supply of school and for municipal supply of Minturn.

					R YEAR OC		ET PER SECO 3 TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	11 11 14 13 13	5.2 e5.1 e4.7 e4.4 e3.8	e6.6 e6.4 e5.8 e5.6 e5.4	e4.1 e4.0 e3.1 e2.9	e3.7 e3.7 e3.1 e3.1 e2.8	e3.5 e3.5 e3.9 e3.9	e15 e20 e22 e20 e23	30 32 50 80 108	84 88 106 152 181	157 135 116 102 91	35 33 31 28 26	13 12 11 12 17
6 7 8 9 10	12 11 10 9.5 9.4	e4.9 e5.9 e5.8 e5.9 e5.8	e5.7 e5.9 e5.6 e5.3 e5.1	e3.7 e3.7 e3.4 e3.1 e3.4	e2.8 e2.5 e2.2 e2.2 e2.5	e3.9 e3.5 e3.5 e3.5	e26 e29 e30 30 27	147 184 205 196 207	246 308 325 262 260	97 92 87 85 80	27 25 22 19 17	17 15 13 12
11 12 13 14 15	13 12 10 9.0 8.4	e5.8 e5.8 e6.8 e5.7 e5.5	e5.0 e5.0 e5.0 e5.0 e4.8	e3.4 e3.1 e2.5 e3.1 e3.4	e3.1 e1.9 e2.8 e3.1 e3.4	e3.2 e3.2 e3.5 e3.5	24 22 21 26 28	232 172 113 83 66	177 128 122 186 222	74 70 69 69 81	16 15 14 13 12	13 12 11 9.9 9.5
16 17 18 19 20	8.0 7.7 7.4 7.2 7.0	e5.4 e5.8 e5.6 e6.2 e6.4	e4.8 e4.8 e4.7 e4.5 e4.5	e3.4 e3.4 e3.4 e3.4	e3.4 e3.4 e3.4 e3.1	e3.9 e3.9 e3.9 e5.5 e6.3	30 33 30 25 23	66 74 86 144 210	195 156 165 143 152	96 135 92 113 96	11 12 22 63 70	9.1 8.4 8.1 8.8 15
21 22 23 24 25	6.8 6.4 6.4 6.1 5.9	e7.0 e6.6 e5.6 e5.8 e6.2	e4.5 e4.5 e4.5 e4.5 e4.4	e3.1 e3.1 e3.1 e3.1	e3.1 e3.4 e3.4 e3.5	e8.8 e10 e14 e14 e17	21 18 17 15 18	211 206 146 153 143	158 115 94 112 125	86 68 59 67 57	49 42 38 30 25	21 26 24 23 23
26 27 28 29 30 31	5.4 5.7 5.9 5.7 5.6 5.2	e6.8 e6.8 e6.6 e6.4 e6.6	e4.2 e4.2 e4.2 e4.2 e4.2 e4.1	e3.1 e3.4 e3.7 e4.0 e4.0 e4.0	e4.2 e3.9 e3.5 e3.5	e17 e18 e8.8 e8.8 e9.6 e12	17 26 36 36 38	131 141 162 209 141 100	125 117 117 111 149	48 81 63 49 43 39	21 19 19 16 15	24 22 20 20 26
TOTAL MEAN MAX MIN AC-FT	268.7 8.67 14 5.2 533	174.9 5.83 7.0 3.8 347	153.0 4.94 6.6 4.1 303	105.7 3.41 4.1 2.5 210	91.2 3.14 4.2 1.9 181	215.0 6.94 18 3.2 426	746 24.9 38 15 1,480	4,228 136 232 30 8,390	4,881 163 325 84 9,680	2,597 83.8 157 39 5,150	799 25.8 70 11 1,580	466.8 15.6 26 8.1 926
MEAN MAX (WY) MIN (WY)	13.6 49.5 (1962) 3.39 (1957)	7.20 15.6 (1962) 1.99 (1957)	4.39 9.81 (1997) 0.99 (1963)	3.22 8.85 (1997) 0.17 (1963)	3.08 8.84 (1997) 0.48 (1977)	4.32 11.4 (1997) 1.09 (1977)	21.9 57.6 (1962) 6.35 (1973)	125 221 (1970) 57.8 (1995)	245 360 (1980) 90.8 (2002)	127 355 (1957) 20.0 (2002)	43.0 122 (1983) 12.1 (2002)	22.3 65.0 (1961) 6.68 (1974)
SUMMAF	RY STATIST	TICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	)4 WATER Y	EAR	WATER	YEARS 19:	57 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE 50 PERCE	MEAN ANNUAL MANNUAL MANNUAL ME DAILY ME DAILY ME	MEAN AN AN Y MINIMUM OW 'AGE AC-FT) DS DS	М	54' e. 37,54' 18' 1	7 Jun 3.8 Nov 4.2 Dec	5	32 44 29,2 13	40.2 25 Jun e1.9 Fel 2.5 Fel 49 Jun 4.65 Jun	n 8 b 12 b 6 n 8 n 8	37,	a0.10 D 0.13 D 754 J b5.45 J	1984 2002 un 30, 1957 ec 27, 1962 ec 26, 1962 un 30, 1957 un 30, 1957

e Estimated.

Also occurred Dec 28-31, 1962, Jan 6-8, 11-15, 1963.

a Also occurred Dec 28-31, 1962, Jan 0-8, 11-b Maximum gage height, 6.14 ft, Aug 6, 1983.

## 09065500 GORE CREEK AT UPPER STATION, NEAR MINTURN, CO

LOCATION.--Lat 39°37'33", long 106°16'39", in NE  $^{1}_{4}$ NW $^{1}_{4}$  sec.18, T.5 S., R.79 W., Eagle County, Hydrologic Unit 14010003, on right bank 20 ft downstream from bridge pier on Interstate 70, 0.2 mi upstream from Black Gore Creek, 4.4 mi east of Vail, and 8.4 mi northeast of Minturn.

DRAINAGE AREA.--14.4 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1947 to September 1956, October 1963 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09065500

REVISED RECORDS .-- WDR CO-89-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,600 ft above NGVD of 1929, from topographic map. Oct. 1, 1947 to Sept. 30, 1956, Oct. 1, 1963 to Sept. 30, 1980, at various sites about 1200 ft upstream at different datums. See WDR CO-80-2, for history of changes prior to Oct. 1, 1980. Oct. 1, 1980 to Apr. 21, 1992, gage at site 10 ft upstream and at datum 2.0 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. No diversion upstream from station.

					R YEAR OC'		ET PER SECO TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	6.7 7.2 8.0 7.6 7.6	e4.3 e4.3 e4.6 e4.8 e4.8	e5.1 e5.1 e5.1 e5.1 e5.0	e3.5 e3.5 e3.5 e3.5 e3.5	e2.3 e2.3 e2.4 e2.4	e4.2 e4.7 e4.9 e5.1 e4.9	14 15 14 13 14	12 12 21 36 56	47 55 79 101 124	54 51 45 39 35	e13 e12 e11 e11 e10	e5.2 4.8 4.7 e4.8 e5.6
6 7 8 9 10	7.0 7.0 7.0 6.8 6.9	e4.8 e5.1 e5.4 e5.8 e6.1	e4.8 e4.6 e4.5 e4.3	e3.2 e3.1 e3.0 e3.0 e3.0	e2.4 e2.4 e2.4 e2.4	e4.9 e4.9 e5.6 e5.8 e6.5	14 15 16 16 13	88 109 114 107 112	155 174 158 143 129	36 36 34 33 31	9.7 9.2 8.4 7.8 7.3	e7.1 e9.4 e9.1 8.6 7.9
11 12 13 14 15	8.4 6.9 6.3 5.7 5.6	e6.1 e6.4 e6.4 e6.4	e4.3 e4.3 e4.3 e4.3	e3.0 e3.0 e3.0 e3.0 e3.0	e2.4 e2.4 e2.4 e2.4	e7.3 e8.0 e8.2 e8.9 e10	12 11 e11 e12 e13	110 86 57 44 37	96 75 77 99 101	30 28 26 25 33	7.0 6.7 6.4 6.2 6.0	7.7 7.0 6.7 6.2 5.9
16 17 18 19 20	5.5 5.2 5.1 4.9 4.8	e6.4 e6.1 e6.1 e6.1	e4.2 e4.0 e4.0 e4.0 e4.0	e2.9 e2.9 e2.8 e2.8 e2.8	e2.5 e2.5 e2.5 e2.5 e2.5	e11 e11 e12 e12 e12	e14 e17 e17 e16 13	33 35 46 82 123	91 83 80 78 76	37 35 29 27 28	5.8 6.5 7.5 15	5.7 5.3 5.1 5.8 7.1
21 22 23 24 25	4.7 4.5 4.4 4.3 3.7	e6.1 e5.9 e5.8 e5.6 e5.6	e3.8 e3.7 e3.7 e3.5 e3.5	e2.6 e2.4 e2.4 e2.4 e2.4	e2.4 e2.4 e2.4 e2.7	e14 e16 e18 e20 e22	12 11 9.4 8.3 8.1	125 103 82 82 73	76 62 56 57 58	26 22 21 22 18	11 10 8.9 7.8 e7.5	8.1 9.1 8.9 8.8 9.7
26 27 28 29 30 31	4.1 4.4 4.2 4.1 e4.6 e4.3	e5.4 e5.3 e5.1 e5.1 e5.1	e3.5 e3.5 e3.5 e3.5 e3.5 e3.5	e2.4 e2.5 e2.3 e2.3 e2.3 e2.3	e2.9 e3.1 e3.6 e4.0	e24 e23 e18 e14 e12 e13	7.9 10 13 14 14	e68 e77 95 101 68 53	58 54 51 52 52	16 e16 e15 e14 e14 e13	e7.1 e6.7 e6.3 e6.0 e5.6 e5.2	11 11 10 10 13
TOTAL MEAN MAX MIN AC-FT	177.5 5.73 8.4 3.7 352	167.5 5.58 6.4 4.3 332	128.8 4.15 5.1 3.5 255	88.3 2.85 3.5 2.3 175	74.1 2.56 4.0 2.3 147	345.9 11.2 24 4.2 686	387.7 12.9 17 7.9 769	2,247 72.5 125 12 4,460	2,597 86.6 174 47 5,150	889 28.7 54 13 1,760	262.6 8.47 15 5.2 521	229.3 7.64 13 4.7 455
MEAN MAX (WY) MIN (WY)	7.41 19.8 (1985) 3.12 (1976)	4.95 15.3 (1985) 2.50 (1976)	3.69 9.23 (1986) 1.94 (1964)	3.16 9.75 (1986) 1.86 (1964)	3.04 10.6 (1986) 1.55 (1977)	3.85 12.6 (1985) 1.57 (1977)	11.9 22.5 (1969) 3.81 (1973)	70.4 121 (1974) 23.4 (1968)	151 245 (1978) 52.4 (2002)	67.1 198 (1983) 10.2 (2002)	19.9 83.7 (1983) 5.44 (2002)	9.58 22.9 (1984) 3.52 (1956)
SUMMAR	Y STATIST	TICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 19	48 - 2004
LOWEST ANIONAL MAXIMUM ANNUAL 10 PERCE 50 PERCE	MEAN ANNUAL M ANNUAL M DAILY ME DAILY ME	IEAN AN AN Y MINIMUM OW 'AGE AC-FT) DS DS	Л	e3 25,700 117	5.5 7 Jun 3.3 Mar 3.4 Mar	7	17 20 15,00	e2.3 Jai e2.3 Jai 60 Jui 3.42 Jui	n 7 n 28 n 28 n 7	a	e1.2 M e1.3 F 662 J	1983 2002 un 25, 1983 Iar 5, 1977 eb 27, 1977 un 24, 1983 un 24, 1983

<sup>e Estimated.
a From rating curve extended above 140 ft<sup>3</sup>/s.
b Maximum gage height, 6.65 ft, Jun 18, 1951, datum then in use.</sup> 

## 09066000 BLACK GORE CREEK NEAR MINTURN, CO

LOCATION.--Lat 39°35'47", long 106°15'52", T.5 S., R.79 W., Eagle County, Hydrologic Unit 14010003, on right bank 200 ft from U.S. Highway 6, 0.3 mi upstream from Timber Creek, 2.5 mi upstream from mouth, and 9 mi east of Minturn.

DRAINAGE AREA.--12.6 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1947 to September 1956, October 1963 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09066000

REVISED RECORDS.--WDR CO-89-2: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 9,150 ft above NGVD of 1929, from topographic map. Prior to October 1963, at site 15 ft upstream, at present datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. No diversions upstream from station. Natural regulation by two small recreation lakes upstream from station.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	2.6 2.7 2.7 2.5 2.6	2.2 2.4 2.8 2.5 2.8	e3.0 e3.1 e3.0 e3.0 e3.0	e2.8 e2.8 e2.9 e3.0 e3.1	e3.7 e3.7 e3.6 e3.6 e3.8	e3.4 e3.4 e3.6 e3.6 e3.7	7.9 8.5 8.2 8.0 8.7	11 13 16 19 23	42 41 42 42 42	16 13 12 11	4.9 4.7 4.6 4.4 4.4	2.9 2.8 2.7 3.1 3.9	
6 7 8 9 10	2.6 2.5 2.4 2.4 2.6	2.8 2.8 2.7 2.9 2.9	e3.0 e3.0 e3.0 e3.0 e3.0	e3.2 e3.4 e3.6 e3.7 e3.7	e3.5 e3.6 e3.6 e3.6 e3.5	e3.8 e3.8 e4.0 e4.1 e4.3	8.5 8.9 9.3 9.1 8.1	28 32 38 39 43	44 45 44 43 41	11 9.9 9.5 8.8 8.4	4.3 4.1 3.9 3.7 3.6	3.7 3.2 3.0 2.9 2.9	
11 12 13 14 15	3.8 2.8 2.5 2.9 2.6	3.0 e2.8 e3.1 e3.1 e3.1	e3.0 e3.0 e3.0 e3.0 e3.0	e3.9 e4.0 e4.1 e4.2 e4.3	e3.5 e3.2 e3.4 e3.4 e3.3	e4.4 e4.5 e4.6 e4.8 e4.9	7.6 7.4 7.6 8.4 9.0	46 43 37 33 30	39 35 32 30 29	8.0 7.7 7.4 7.3 9.4	3.4 3.4 3.3 3.2 3.1	2.9 2.8 2.7 2.5 2.5	
16 17 18 19 20	2.4 2.4 2.4 2.3 2.3	e3.2 e3.2 e3.2 e3.2 e3.2	e2.9 e2.9 e2.8 e2.8 e2.7	e4.3 e4.4 e4.4 e4.3 e4.3	e3.3 e3.3 e3.0 e3.3 e3.1	e5.1 e5.2 5.5 5.7 6.4	10 11 11 9.9 9.3	31 33 38 47 55	27 26 25 23 22	9.6 9.9 8.7 8.0 8.7	3.0 3.1 3.8 6.4 4.9	2.5 2.4 2.4 2.7 3.1	
21 22 23 24 25	2.3 2.4 2.3 2.3 2.0	e3.1 e3.0 e3.0 e2.9	e2.7 e2.7 e2.7 e2.7 e2.7	e4.1 e4.1 e4.1 e4.1 e4.0	e3.1 e3.1 e3.0 e3.1	7.1 7.5 7.3 7.6 7.8	9.3 8.6 8.2 7.8 8.0	57 55 52 51 50	25 22 20 19 18	7.7 6.8 6.4 6.6 6.1	4.1 3.9 3.8 3.5 3.9	3.9 4.1 4.1 4.1 4.1	
26 27 28 29 30 31	2.4 2.3 2.3 2.3 2.2 2.2	e2.9 e2.9 e2.9 e2.9 e2.9	e2.7 e2.7 e2.8 e2.8 e2.8	e3.9 e3.8 e3.8 e3.8 e3.8 e3.8	e3.1 e3.1 e3.2 e3.3	7.9 7.6 6.9 7.3 7.2 7.1	8.1 9.7 11 12 12	49 48 49 49 47 44	17 16 15 15 17	5.8 5.7 5.6 5.5 5.3 5.2	3.2 3.1 3.0 2.9 2.8 2.7	3.9 3.6 3.4 3.5 4.5	
TOTAL MEAN MAX MIN AC-FT	77.0 2.48 3.8 2.0 153	87.5 2.92 3.2 2.2 174	89.2 2.88 3.1 2.7 177	117.7 3.80 4.4 2.8 233	97.1 3.35 3.8 3.0 193	170.1 5.49 7.9 3.4 337	271.1 9.04 12 7.4 538	1,206 38.9 57 11 2,390	898 29.9 45 15 1,780	262.0 8.45 16 5.2 520	117.1 3.78 6.4 2.7 232	96.8 3.23 4.5 2.4 192	
				R WATER Y				, ,					
MEAN MAX (WY) MIN (WY)	3.82 10.7 (1985) 1.90 (1951)	3.34 10.7 (1985) 1.84 (1964)	2.82 9.57 (1985) 1.35 (1970)	2.56 8.08 (1986) 1.01 (1979)	2.50 9.09 (1986) 0.91 (1979)	3.08 14.5 (1986) 1.40 (1971)	7.69 22.8 (1985) 2.86 (1973)	55.1 130 (1948) 15.0 (1995)	88.0 160 (1978) 21.2 (2002)	21.2 69.2 (1995) 4.08 (2002)	7.03 21.4 (1984) 2.37 (2002)	4.27 12.0 (1984) 2.43 (1956)	
SUMMAR	Y STATIST	ICS		FOR 2003 C	ALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 19	948 - 2004	
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL	MEAN ANNUAL M ANNUAL M DAILY ME DAILY MEA SEVEN-DA M PEAK FL M PEAK ST RUNOFF (A	IEAN AN AN Y MINIMUN OW AGE AC-FT)	1	6,250 17 275 2 e2 12,400 43	.1 Jun .0 Oct .2 Jan	25	6,92	9.53 57 May 2.0 Oc 2.2 Oc 56 May 3.87 May	t 25 t 25 7 20	:	0.90 1 0.90 1 370 .	1984 2002 Jun 1, 2003 Feb 22, 1968 Feb 4, 1979 Jun 17, 1995 Jun 17, 1995	
10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			43 3.9 2.5				3.8 2.7			3.8 2.0			

e Estimated.

a Maximum gage height, 6.00 ft, Mar 30, 1968, backwater from ice.

## 09066100 BIGHORN CREEK NEAR MINTURN, CO

LOCATION.--Lat 39°38'24", long 106°17'34", in  $N^1/_2$  sec.12, T.5 S., R.80 W., Eagle County, Hydrologic Unit 14010003, on left bank 0.3 mi upstream from U.S. Highway 6, 0.4 mi upstream from mouth, 4.5 mi east of Vail, and 8.5 mi northeast of Minturn.

DRAINAGE AREA.--4.54 mi<sup>2</sup>.

OCT

DAY

PERIOD OF RECORD.--October 1963 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=09066100

REVISED RECORDS .-- WDR CO-88-2: Drainage area.

NOV

DEC

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 8,625 ft above NGVD of 1929, from topographic map.

JAN

REMARKS.--Records fair except for estimated daily discharges, which are poor. No regulation or diversion upstream from station.

# DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

MAR

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Dill	001	1101	DLC	37 11 1	1 LD	1717 114	71111	1711 1 1	3011	JOL	7100	OLI
1 2 3 4 5	2.3 2.7 2.6 2.4 2.3	1.6 1.7 1.7 1.5 e1.3	e1.1 e1.1 e0.96 e0.96 e0.96	e0.96 e0.96 e0.96 e0.96	e0.81 e0.81 e0.81 e0.81	e1.0 e1.5 e1.9 e1.9	6.1 7.2 6.6 6.3 7.2	7.1 7.6 12 18 25	12 13 17 26 33	17 17 16 14 13	4.6 4.4 4.3 4.0 4.0	1.7 1.6 1.6 2.0 2.5
6 7 8 9 10	2.2 2.1 2.1 2.0 2.1	e1.4 e1.4 e1.3 e1.3	e0.96 e0.96 e0.96 e0.96	e0.96 e0.96 e0.96 e0.96	e0.81 e0.81 e0.81 e0.81	e1.9 e1.6 e1.6 e1.9 e2.5	7.6 7.6 7.6 7.4 6.8	30 34 39 37 36	41 48 44 39 36	12 12 12 12 11	3.7 3.5 3.1 3.0 2.8	3.0 3.6 3.5 3.2 3.2
11 12 13 14 15	2.4 2.1 2.0 1.9 1.9	e1.4 e1.3 e1.3 e1.3 e1.3	e0.96 e0.96 e0.96 e0.96	e0.96 e0.96 e0.96 e0.96	e0.76 e0.72 e0.72 e0.72 e0.67	e3.0 e3.3 e3.6 e3.9 e3.3	6.1 5.5 5.4 6.2 6.2	34 25 19 15 13	27 22 23 29 29	10 9.3 9.0 9.5 13	2.7 2.5 2.3 2.2 2.1	3.0 2.8 2.7 2.6 2.5
16 17 18 19 20	1.9 1.8 1.8 1.8 1.7	e1.3 e1.3 e1.1 e1.1	e0.96 e0.96 e0.96 e0.96	e0.96 e0.96 e0.96 e0.96 e0.81	e0.67 e0.67 e0.67 e0.67	e2.5 e2.5 e2.7 e3.3 e4.2	7.2 8.6 8.6 7.6 6.9	13 13 17 26 35	25 23 22 21 21	13 12 11 10 11	2.0 2.1 2.4 4.8 4.1	2.3 2.1 2.1 2.2 2.5
21 22 23 24 25	1.7 1.7 1.7 1.7 1.6	el.1 el.1 el.1 el.1 el.1	e0.96 e0.96 e0.96 e0.96 e0.96	e0.81 e0.81 e0.81 e0.81	e0.67 e0.67 e0.64 e0.87	e4.8 e5.3 e6.5 e7.3 e8.5	6.3 5.6 5.0 4.6 4.4	36 32 25 23 20	21 18 17 17 17	9.6 8.7 8.6 8.2 6.8	3.7 3.3 3.0 2.7 2.6	2.7 2.7 2.8 3.1 3.7
26 27 28 29 30 31	1.6 1.7 1.7 1.7 1.7 1.6	e1.1 e1.1 e1.1 e1.1	e0.96 e0.96 e0.96 e0.96 e0.96 e0.96	e0.81 e0.81 e0.81 e0.81 e0.81 e0.81	e0.89 e1.3 e1.3 e1.3	e9.1 e8.5 e7.6 e7.1 e6.2 e6.5	4.2 5.1 6.9 7.3 7.8	18 20 26 29 20 15	17 16 16 16 17	6.6 6.2 6.1 5.6 5.1 4.7	2.4 2.3 2.1 1.9 1.8 1.7	4.6 4.9 4.9 4.9 5.5
TOTAL MEAN MAX MIN AC-FT	60.5 1.95 2.7 1.6 120	38.1 1.27 1.7 1.1 76	30.04 0.97 1.1 0.96 60	27.96 0.90 0.96 0.81 55	23.35 0.81 1.3 0.64 46	127.4 4.11 9.1 1.0 253	195.9 6.53 8.6 4.2 389	719.7 23.2 39 7.1 1,430	723 24.1 48 12 1,430	320.0 10.3 17 4.7 635	92.1 2.97 4.8 1.7 183	90.5 3.02 5.5 1.6 180
STATIST	ICS OF MO	NTHLY MEA	AN DATA FO	OR WATER Y	YEARS 1964	- 2004, BY V	VATER YEAR	R (WY)				
MEAN MAX (WY) MIN (WY)	2.73 8.03 (1986) 1.01 (1964)	1.68 4.65 (1985) 0.84 (1980)	1.06 2.53 (1985) 0.63 (1977)	0.86 2.04 (1986) 0.45 (1967)	0.83 2.54 (1986) 0.30 (1964)	1.11 4.11 (2004) 0.32 (1981)	4.11 10.0 (1985) 0.86 (1964)	24.9 52.5 (1984) 8.09 (1995)	47.9 85.2 (1978) 16.7 (2002)	21.4 61.2 (1983) 3.54 (2002)	7.17 22.6 (1984) 2.13 (2002)	3.68 9.94 (1984) 1.12 (1975)
SUMMAI	RY STATIST	TICS		FOR 2003 (	CALENDAR	YEAR	FOR 200	)4 WATER Y	EAR	WATER	YEARS 1964	- 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU	. MEAN 「ANNUAL I 「ANNUAL II 「DAILY ME 「DAILY ME 」SEVEN-DA JM PEAK FI JM PEAK ST	MEAN EAN AN AY MINIMU LOW FAGE	M	17 e e	2.2 1 Jun 0.66 Feb 0.69 Feb	9	2	3.41 Jun	24	bí	a0.10 Feb 0.20 Mar 338 Jun c4.10 Jun	1984 2002 1, 2003 8, 1967 4, 1981 8, 1985 8, 1985
10 PERCE 50 PERCE	L RUNOFF (A ENT EXCEE ENT EXCEE ENT EXCEE	DS DS			0 7 2.9 0.96		4,86	20 2.5 0.85		7,	100 32 2.4 0.70	

e Estimated.

Also occurred Jan 30, 1970.

b From rating curve extended above 82 ft<sup>3</sup>/s.
c Maximum gage height, 4.26 ft, Jun 8, 1985, backwater from debris.

## 09066150 PITKIN CREEK NEAR MINTURN, CO

 $LOCATION.--Lat~39^{\circ}38'37'', long~106^{\circ}18'07'', in~SW^{1}_{4}SW^{1}_{4}~sec.1, T.5~S., R.80~W., Eagle~County, Hydrologic~Unit~14010003, on~left~bank, 100~ft~downstream~from~Pitkin~Ditch~headgate, 1,000~ft~upstream~from~U.S.~Highway~6, 1,200~ft~upstream~from~mouth, 4.0~mi~east~of~Vail,~and~8~mi~northeast~of~Minturn.$ 

DRAINAGE AREA.--5.32 mi<sup>2</sup>.

PERIOD OF RECORD.--Annual maximum and occasional low-flow measurements, water years 1965-66. October 1966 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09066150

REVISED RECORDS.--WRD Colo. 1971: 1967-70. WDR CO-88-2: Drainage area.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 8,525 ft above NGVD of 1929, from topographic map. Oct. 1, 1964 to Sept. 30, 1966, crest-stage gage at datum 0.98 ft lower, at site 300 ft downstream.

REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	3.9 4.5 4.3 4.1 3.9	2.3 2.5 2.7 2.5 2.5	e2.3 e2.3 e2.3 e2.3	e2.0 e2.0 e2.0 e2.0 e2.0	e1.5 e1.5 e1.5 e1.5 e1.5	e1.5 e1.5 e1.5 e1.5 e1.5	6.9 7.6 7.2 7.2 7.7	7.7 8.6 13 19 28	16 16 21 29 37	22 20 18 15 14	6.0 5.6 5.4 5.2 5.0	2.9 2.8 2.7 3.3 4.5
6 7 8 9 10	3.7 3.5 3.5 3.4 3.3	2.7 2.7 2.7 2.6 2.8	e2.3 e2.3 e2.3 e2.3	e2.0 e2.0 e2.0 e2.0 e2.0	e1.5 e1.5 e1.5 e1.5 e1.5	e1.5 e2.0 e2.0 e2.2 e2.7	7.6 7.6 7.5 7.2 6.8	42 49 48 43 45	45 53 59 53 47	14 14 14 13 13	4.9 4.6 4.2 4.0 4.1	5.7 6.7 6.0 5.3 5.0
11 12 13 14 15	4.2 3.5 3.2 3.4 3.3	3.1 e3.3 e3.0 e3.0 e2.8	e2.3 e2.3 e2.3 e2.3	e2.0 e2.0 e2.0 e2.0 e2.0	e1.5 e1.5 e1.5 e1.5 e1.5	e3.2 e3.4 e3.5 e3.7 e3.9	6.3 6.1 6.1 6.7 7.2	45 38 31 24 20	35 27 30 37 39	12 11 10 11 17	3.8 3.7 3.5 3.4 3.2	4.7 4.3 4.1 3.9 3.8
16 17 18 19 20	3.2 3.1 3.0 3.0 2.9	e3.0 e3.0 e3.0 e3.0 e2.8	e2.3 e2.3 e2.3 e2.2 e2.0	e2.0 e2.0 e2.0 e1.8 e1.8	e1.5 e1.5 e1.5 e1.5 e1.5	e3.9 e3.9 e3.9 e3.9 e4.1	8.2 9.9 9.9 8.6 7.8	20 20 24 37 50	34 31 30 28 28	15 13 12 11 13	3.1 3.0 3.5 8.2 6.9	3.6 3.4 3.2 3.4 4.0
21 22 23 24 25	2.7 2.7 2.7 2.7 2.5	e2.8 e2.6 e2.5 e2.5 e2.3	e2.0 e2.0 e2.0 e2.0 e2.0	e1.5 e1.5 e1.5 e1.5 e1.5	e1.5 e1.5 e1.5 e1.5 e1.5	e4.2 e4.4 e4.7 e5.1 e5.4	7.3 6.7 6.1 5.8 5.5	50 46 38 36 33	28 21 21 23 23	11 10 11 12 9.8	6.2 5.6 5.1 4.5 4.3	4.5 5.0 5.0 5.4 6.5
26 27 28 29 30 31	2.5 2.6 2.5 2.5 2.4 2.3	e2.3 e2.3 e2.3 e2.3	e2.0 e2.0 e2.0 e2.0 e2.0 e2.0	e1.5 e1.5 e1.5 e1.5 e1.5 e1.5	e1.5 e1.5 e1.5 e1.5	e5.9 e6.4 e6.8 e6.8 e6.8 e7.0	5.4 6.4 7.9 7.8 8.0	29 29 33 36 24 18	21 19 18 19 19	9.1 8.3 7.9 7.3 6.9 6.5	4.0 3.9 3.7 3.4 3.1 3.0	7.2 7.0 6.7 6.6 7.6
TOTAL MEAN MAX MIN AC-FT	99.0 3.19 4.5 2.3 196	80.2 2.67 3.3 2.3 159	67.6 2.18 2.3 2.0 134	56.1 1.81 2.0 1.5	43.5 1.50 1.5 1.5 86	118.8 3.83 7.0 1.5 236	217.0 7.23 9.9 5.4 430	984.3 31.8 50 7.7 1,950	907 30.2 59 16 1,800	381.8 12.3 22 6.5 757	138.1 4.45 8.2 3.0 274	144.8 4.83 7.6 2.7 287
MEAN MAX (WY) MIN (WY)	4.02 9.43 (1985) 1.49 (1967)	2.57 3.84 (1982) 1.26 (1980)	1.82 3.28 (1986) 0.94 (1967)	1.47 3.84 (1986) 0.58 (1967)	1.36 3.94 (1986) 0.70 (1981)	- 2004, BY W 1.57 3.85 (1985) 0.87 (1981)	4.34 7.77 (2002) 1.44 (1973)	25.9 61.7 (2003) 8.48 (1995)	53.5 106 (2003) 20.3 (2002)	28.2 94.5 (1984) 3.94 (2002)	9.26 31.1 (1983) 2.59 (2002)	5.19 11.2 (1984) 2.78 (1988)
. ,	Y STATIST	. /	( /	` ′	CALENDAR	` ′	` /	4 WATER Y	` ′	` ′	YEARS 196	` /
ANNUAL ANNUAL HIGHEST LOWEST, HIGHEST LOWEST I ANNUAL MAXIMUI MAXIMUI ANNUAL 10 PERCE 50 PERCE	TOTAL MEAN ANNUAL M ANNUAL M DAILY ME DAILY MEA	MEAN IEAN AN AN Y MINIMUM OW AGE AC-FT) OS	1	6,820 13 300 13,530 50	0.6 8.7 3 Jun 1.0 Mar 1.3 Mar	1 12	3,23 5 6,42	88.2 88.85 59 Jun 1.5 Jan 1.5 Jan 55 Jun 2.49 Jun	8 121	:	11.6 22.7 5.94 303 Ju 0.24 Oo 0.26 Oo 408 Ma	1984 2002 n 1, 2003 ct 29, 1972 ct 26, 1972 ty 30, 2003 y 30, 2003

e Estimated.

a Maximum gage height, 3.75 ft, Jul 13, 1995, backwater from debris.

## 09066200 BOOTH CREEK NEAR MINTURN, CO

LOCATION.--Lat 39°38'54", long  $106^\circ19'21$ ", in NE $^1/_4$ SE $^1/_4$  of sec.3, T.5 S., R.80 W., Eagle County, Hydrologic Unit 14010003, on right bank, downstream side of old Highway 6 bridge pier, 100 ft upstream from frontage road to 1-70, 0.2 mi upstream from mouth, 3.0 mi northeast of Vail, and 7.0 mi northeast of Minturn.

DRAINAGE AREA.--6.02 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1964 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=09066200

REVISED RECORDS .-- WDR CO-89-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,325 ft above NGVD of 1929, from topographic map. Prior to June 4, 1984, gage at site 1,000 ft upstream at different datum (gage destroyed by rock slide).

REMARKS.--Records fair except for estimated daily discharges, which are poor. No diversion or regulation upstream from station.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	2.0 2.5 2.1 2.0 1.9	0.68 0.77 0.86 0.79 0.80	e1.0 e1.0 e1.0 e1.0 e1.0	e0.81 e0.81 e0.81 e0.81	e0.76 e0.76 e0.76 e0.76 e0.76	e0.82 e0.82 e1.3 e1.2 e1.3	8.7 9.6 9.0 8.5 8.9	11 12 17 26 33	20 20 25 39 54	19 16 14 12 11	3.5 3.3 3.2 3.0 2.9	1.4 1.4 1.3 1.6 2.5	
6 7 8 9 10	1.8 1.7 1.6 1.5 1.5	0.82 0.81 0.80 0.76 0.87	e1.0 e1.0 e0.99 e0.99 e0.99	e0.81 e0.81 e0.81 e0.81	e0.76 e0.76 e0.76 e0.76 e0.76	e1.3 e1.3 e1.3 e1.4	8.9 9.0 9.4 9.4 8.4	53 64 58 53 59	70 76 73 66 53	9.9 9.3 8.6 8.1 7.8	2.9 2.6 2.4 2.1 2.2	4.0 4.9 4.1 3.5 3.2	
11 12 13 14 15	2.0 1.6 1.5 1.4 1.3	1.0 e1.1 e1.1 e1.1 e1.1	e0.97 e0.97 e0.95 e0.93 e0.91	e0.81 e0.81 e0.81 e0.82 e0.82	e0.76 e0.76 e0.76 e0.76 e0.76	e1.6 e1.9 e2.2 e2.5 e2.8	7.6 7.0 6.8 7.9 8.8	59 42 29 22 19	39 31 32 40 39	7.1 6.4 5.9 6.0 9.4	2.1 2.0 1.9 1.8 1.8	3.0 2.6 2.4 2.1 2.0	
16 17 18 19 20	1.2 1.2 1.1 1.1 1.0	e1.1 e1.1 e1.1 e1.1	e0.91 e0.91 e0.90 e0.88 e0.86	e0.82 e0.82 e0.82 e0.82 e0.82	e0.76 e0.76 e0.76 e0.76 e0.76	e3.9 e3.1 e4.0 e4.9 e6.5	10 13 14 12 11	17 18 23 42 62	34 31 30 28 27	9.3 7.5 6.8 6.5 8.5	1.7 1.7 2.1 6.3 4.4	1.9 1.8 1.7 1.9 2.4	
21 22 23 24 25	0.96 0.92 0.93 0.92 0.86	e1.1 e1.1 e1.1 e1.1	e0.86 e0.86 e0.84 e0.84	e0.82 e0.76 e0.76 e0.76 e0.76	e0.76 e0.76 e0.76 e0.76 e0.69	e8.7 e10 e12 e13 e13	9.7 8.8 7.9 7.5 7.1	66 55 46 42 35	27 21 20 20 19	6.6 5.6 6.5 6.9 5.7	3.9 3.2 2.8 2.4 2.2	3.0 3.6 3.7 4.3 5.9	
26 27 28 29 30 31	0.81 0.86 0.76 0.75 0.71 0.67	e1.1 e1.1 e1.1 e1.0	e0.84 e0.84 e0.84 e0.84 e0.82 e0.81	e0.76 e0.76 e0.76 e0.76 e0.76 e0.76	e0.82 e0.82 e0.82 e0.82	e14 e12 e10 e8.7 e7.8 e8.8	6.9 8.8 11 11 11	35 37 48 47 32 24	18 17 16 17 18	5.2 4.9 4.9 4.6 4.2 3.8	2.0 2.0 1.9 1.7 1.6 1.5	6.1 5.7 5.3 5.1 e6.7	
TOTAL MEAN MAX MIN AC-FT	41.15 1.33 2.5 0.67 82	29.76 0.99 1.1 0.68 59	28.39 0.92 1.0 0.81 56	24.69 0.80 0.82 0.76 49	22.21 0.77 0.82 0.69 44	163.44 5.27 14 0.82 324	277.6 9.25 14 6.8 551	1,186 38.3 66 11 2,350	1,020 34.0 76 16 2,020	248.0 8.00 19 3.8 492	79.1 2.55 6.3 1.5 157	99.1 3.30 6.7 1.3 197	
						,	ATER YEAI	` ′					
MEAN MAX (WY) MIN (WY)	2.79 8.30 (1985) 0.88 (1975)	1.95 7.17 (1985) 0.64 (2000)	1.24 3.54 (1985) 0.67 (1975)	1.00 2.48 (1985) 0.37 (1977)	0.94 2.97 (1985) 0.39 (1981)	1.46 5.72 (1986) 0.41 (1981)	5.74 14.2 (1986) 1.39 (1973)	32.8 58.0 (2001) 10.0 (1995)	62.1 123 (1982) 16.8 (2002)	23.4 70.4 (1983) 2.03 (2002)	5.55 14.4 (1984) 1.07 (2002)	3.03 7.29 (1984) 0.97 (1974)	
SUMMAF	RY STATIST	TICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	)4 WATER Y	EAR	WATER	YEARS 196	5 - 2004	
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN DAY MINIMUM		M	4,323.00 11.8 e215 Jun 1 0.67 Oct 31			3,219.44 8.80 76 Jun 7 0.67 Oct 31			2	0.20 Fe	1982 2002 un 15, 1978 eb 8, 1967 eb 7, 1967		
ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			8,570 44 2.1 0.93			0.74 Oct 27 119 Jun 7 3.55 Jun 7 6,390 28 2.0 0.76			355 Jun 15, 1978 a,b4.07 Jun 15, 1978 8,580 40 2.3 0.76				

Maximum gage height, 4.62 ft, Jun 18, 1983, backwater from debris.
 Site and datum then in use.

0.94

0.20

## 09066300 MIDDLE CREEK NEAR MINTURN, CO

LOCATION.--Lat 39°38'45", long 106°22'54", in sec.6, T.5 S., R.80 W., Eagle County, Hydrologic Unit 14010003, on right bank 200 ft upstream from Interstate Highway 70, 0.2 mi upstream from mouth, and 5.0 mi northeast of Minturn.

DRAINAGE AREA.--5.94 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1964 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site no=09066300

REVISED RECORDS .-- WDR CO-88-2: Drainage area.

GAGE.—Water-stage recorder. Elevation of gage is 8,200 ft above NGVD of 1929, from topographic map. Prior to Oct. 1, 1977 at site 700 ft upstream, at different datum. REMARKS.—Records good except for estimated daily discharges, which are poor. No diversion or regulation upstream from station.

#### DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES DAY OCT NOV DEC JUN JUL AUG SEP JAN **FEB** MAR APR MAY e0.54 2.4 0.77 12 1.1 e0.82e0.66e0.54 1.3 14 11 1.6 17 1.2 e0.541.5 1.7 2.4 99 2 e0.82e0.66e0.5413 16 0.72 1.3 e0.54 8.9 0.71 3 1.7 e0.82 e0.66 e0.66 3.1 14 1.5 0.98 e0.49 e0.82 e0.66 e0.71 8.0 1.5 0.88 5 1.7 1.1 e0.82 e0.66 e0.49 e0.71 1.9 6.2 23 7.2 1.3 1.3 1.2 1.2 e0.49 e0.71 1.9 8.5 31 6 e0.82 e0.66 6.6 1.4 1.3 1.6 1.9 1.3 1.4 e0.82 e0.66 e0.49 e0.71 11 1.2 8 1.4 1.2 e0.82 e0.66 e0.49 e0.71 1.9 38 5.3 1.2 13 1.2 1.3 Q 1.4 e0.82 e0.66 e0.49 e0.71 19 15 36 47 1.1 0.98 10 1.3 e0.82 e0.66 e0.49 e0.71 1.8 18 33 4.4 1.1 0.91 11 1.9 e0.49 1.7 22 28 4.0 0.92 1.3 e0.82 e0.66 e0.71 e0.77 1.2 e0.82 e0.66 e0.49 1.6 17 23 3.6 0.97 0.83 1.6 1.5 1.3 e0.82 3.2 3.1 0.77 0.71 13 e0.82 e0.66 e0.43 e0.88 $\frac{1.6}{1.7}$ 13 21 21 0.96 e0.82 e0.82 0.92 e0.66 e0.43 e0.99 14 11 15 e0.82 e0.82 1.7 9.9 21 3.2 0.90 0.71 1.4 e0.66 e0.43 e1.0 20 3.5 0.71 16 1.4 e0.82e0.82 e0.66e0.43 e1.1 19 9.5 0.83 17 1.3 e0.82e0.77 e0.66 e0.38 e1 1 2.3 93 19 3.1 0.87 0.69 2.5 2.9 e0.82 1.3 e0.71e0.66e0.3210 1.2 0.65 18 e1.1 17 19 1.2 e0.82 e0.71 e0.66 e0.32 2.7 3.6 0.76 13 16 e1.1 1.2 2.3 19 3.3 1.9 20 e0.82 e0.66 e0.66 e0.32 e1.1 15 1.1 21 1.2 2.2 2.7 1.2 e0.82e0.66e0.66e0.32e1.1 24 15 1.6 e0.82 e0.66 e0.32 2.1 24 13 2.4 1.2 1.1 e0.66 e1.1 1.4 23 21 2.4 1.2 1.2 1.1 e0.82 e0.66 e0.54 e0.32 1.9 e1.1 e0.38 24 e0.82 e0.54 1.8 20 10 2.7 1.1 1.2 e0.66 e1.2 25 0.89 e0.82 e0.66 e0.54 e0.38 e1.2 1.8 18 10 2.2 1.0 1.4 26 0.80 e0.82 e0.66 e0.54 e0.49 e1.2 1.7 18 10 2.0 0.95 1.5 e0.54 e1.2 27 e0.54 9.3 0.92 1.3 e0.82 e0.66 28 1.2 e0.82 e0.66 e0.54 e0.54 e1.2 2.2 20 8.7 1.9 0.94 1.3 2.3 2.6 e1.2 1.3 1.7 29 1.2 e0.82 e0.66 e0.54 e0.54 24 10 2.1 0.88 30 e1.3 20 1.8 e0.54 e0.82 1.1 e0.66 12 0.83 31 1.0 e0.54 e1.3 16 1.8 0.77 e0.66 TOTAL 23 23 440.5 41.19 29 04 19 38 12.92 29.66 57.9 567.0 128.5 38.34 31.32 0.97 0.75 1.93 MEAN 1.33 0.630.45 0.96 14.2 18.9 4.15 1.24 1.04 1.9 0.54 1.3 0.82 1.3 2.6 24 11 1.7 MAX 0.66 38 3.6 1.8 0.77 MIN 0.80 0.82 0.66 0.54 0.32 0.54 1.3 8.7 0.65 58 46 38 59 874 1,120 255 AC-FT 82 26 115 76 62 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2004, BY WATER YEAR (WY) MEAN 1.18 0.80 0.50 0.40 0.36 0.42 1.39 12.5 33.8 12.2 3.06 1.62 MAX 3 90 3.10 1.75 2.45 2.34 2.16 6.53 25.5 53 1 39 5 14.0 7.18 (1986) (1986) (1985) (1995) (1983)(1979)(WY) (1985)(1986)(1985)(1984)(1984)(1983)MIN 0.360.030.000.000.000.000.26 3.41 9.35 1.37 0.330.36(WY) (1965)(1965)(1965)(1965)(1965)(1965)(1976)(1995)(2002)(2002)(2002)(2002)SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1965 - 2004 ANNUAL TOTAL 2,385.60 1,418.98 ANNUAL MEAN 6.54 3.88 5.68 HIGHEST ANNUAL MEAN 11.3 1984 LOWEST ANNUAL MEAN 2002 2.20 143 143 1, 2003 HIGHEST DAILY MEAN 38 Jun 8 Jun Jun a0.00 Nov 10, 1964 LOWEST DAILY MEAN 0.24 e0.32 Feb 18 Mar ANNUAL SEVEN-DAY MINIMUM 0.24 5 e0.33 Feb 17 0.00Nov 10, 1964 Mar MAXIMUM PEAK FLOW 45 Jun 180 Jun 2003 b3.03 3.35 MAXIMUM PEAK STAGE 1, 2003 Jun Jun ANNUAL RUNOFF (AC-FT) 4,730 2,810 4,120 10 PERCENT EXCEEDS 21 13 19

0.54

50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

0.31

e Estimated.

a No flow at times several years.

b Maximum gage height, 3.35 ft, Jun 7, 2004.

## 09066325 GORE CREEK ABOVE RED SANDSTONE CREEK, AT VAIL, CO

 $LOCATION.--Lat~39°38'28", long~106°23'39", in~NW^{1}{}_{4}NW^{1}{}_{4}~sec.7, T.5~S., R.80~W., Eagle~County, Hydrologic~Unit~14010003, on left bank~200~ft~downstream~of~the~water~treatment~plant~at~Vail,~0.1~mi~upstream~from~Red~Sandstone~Creek,~and~0.6~mi~downstream~from~Middle~Creek.$ 

DRAINAGE AREA.--77.1 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1999 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=09066325

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,055 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair, except for estimated daily discharges, which are poor. No regulation or diversion upstream from station.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	28 29 30 29 29	19 20 22 20 20	21 20 20 20 20 19	18 18 18 18	17 16 17 17 17	17 17 18 18 18	62 70 70 68 74	83 85 112 166 196	226 226 267 328 378	e156 e136 e122 e118 e111	e46 e45 e43 e41 e39	e21 e21 e22 e22 e26
6 7 8 9 10	27 26 25 25 25 25	20 21 21 20 23	20 20 20 20 20 19	19 20 19 19	17 16 17 17 16	17 17 18 20 22	75 76 80 81 75	248 291 305 299 320	451 496 486 452 414	e106 e98 e91 e88 e86	e35 e33 e32 e30 e28	e30 e36 e35 e34 e32
11 12 13 14 15	30 27 25 23 25	23 22 23 24 23	20 20 19 20 19	18 17 18 18	17 15 16 16 16	21 23 26 27 26	69 65 63 68 72	335 288 232 196 176	343 289 276 314 320	e84 e78 e77 e76 e83	e26 e25 e24 e24 e24	e31 e29 e26 e25 e23
16 17 18 19 20	24 23 22 21 21	21 22 22 22 22 22	18 19 19 19	18 18 18 18	16 16 16 17 17	24 24 26 31 39	79 91 95 87 81	169 175 198 280 376	295 273 e255 e246 e234	e95 e89 e84 e79 e81	e24 e23 e22 e30 e48	e22 e21 e21 e21 e27
21 22 23 24 25	20 21 20 20 19	23 21 17 20 22	19 19 17 18 18	17 17 16 17 17	16 16 16 16 16	49 58 66 67 72	76 71 65 62 63	399 380 337 323 299	e237 e214 e194 e188 e183	e71 e66 e65 e67 e60	e45 e41 e36 e36 e34	e31 e36 e34 e35 e40
26 27 28 29 30 31	18 21 20 20 19 18	22 21 21 21 21	18 17 18 18 18	17 17 17 17 17 17	16 17 18 17	75 73 63 55 51 54	60 69 83 87 88	292 311 344 378 300 253	e173 e166 e159 e161 e167	e57 e56 e54 e52 e50 e49	e31 e28 e26 e24 e23 e22	e45 e43 e43 e41 e48
TOTAL MEAN MAX MIN AC-FT	730 23.5 30 18 1,450	639 21.3 24 17 1,270	589 19.0 21 17 1,170	549 17.7 20 16 1,090	477 16.4 18 15 946	1,132 36.5 75 17 2,250	2,225 74.2 95 60 4,410	8,146 263 399 83 16,160	8,411 280 496 159 16,680	2,585 83.4 156 49 5,130	988 31.9 48 22 1,960	921 30.7 48 21 1,830
				OR WATER YI				R (WY) 372	406	00.7	28.0	22.0
MEAN MAX (WY) MIN (WY)	25.2 27.9 (2000) 23.5 (2004)	20.2 22.1 (2001) 17.3 (2000)	17.9 20.0 (2000) 14.5 (2003)	16.1 19.2 (2000) 14.1 (2003)	15.6 19.1 (2000) 12.8 (2002)	22.4 36.5 (2004) 14.2 (2002)	65.0 74.6 (2000) 56.0 (2003)	531 (2000) 203 (2002)	406 665 (2003) 189 (2002)	90.7 138 (2003) 36.6 (2002)	38.9 53.1 (2003) 19.9 (2002)	33.9 51.3 (2003) 21.1 (2002)
SUMMAF	RY STATIST	ICS		FOR 2003 CA	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 2000	0 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE 50 PERCE	MEAN ANNUAL MANNUAL M DAILY ME DAILY ME	IEAN AN AN Y MINIMUN OW AGE AC-FT) OS OS	Л	46,630 128 1,730 10 11 92,490 445 27 14	Jun Feb Feb	7	49 1 1 61 54,33 24 2	74.8  96 Jun 1.5 Feb 1.6 Feb 1.5 Jun 8.05 Jun 80	12 12 7	1,7 a1,8 67,9	9.3 Se 9.9 Se 890 Ju 9.88 Ju	2003 2002 n 1,2003 p 6,2002 p 1,2002 n 1,2003 n 1,2003

e Estimated.

a From rating curve extended above 700 ft<sup>3</sup>/s.

## 09066400 RED SANDSTONE CREEK NEAR MINTURN, CO

LOCATION .-- Lat 39°40'58", long 106°24'03", in sec. 25, T.4 S., R.81 W., (projected), Eagle County, Hydrologic Unit 14010003, on left bank 150 ft upstream from road culvert, 1,400 ft upstream from Indian Creek, and 6.8 mi north of Minturn.

DRAINAGE AREA.--7.32 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1963 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=09066400

REVISED RECORDS.--WDR CO-88-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry, concrete control, and crest-stage gage. Elevation of gage is 9,212 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for the periods May 25 to June 25 and July 27 to Sept. 22, and estimated daily discharges, which are poor. No regulation or diversion

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1.5 2.0 1.8 1.7 1.7	1.3 e1.3 e1.3 1.4 e1.3	1.3 1.3 1.3 1.2 e1.1	1.1 1.1 e0.98 e1.00 1.1	1.1 1.0 1.1 1.1 1.1	1.0 1.0 1.1 1.1 1.0	4.2 4.4 4.5 4.7 4.7	6.8 7.6 9.5 13 20	20 18 17 19 23	11 8.9 7.8 7.1 6.5	2.8 2.7 2.7 2.6 2.4	1.3 1.3 1.3 1.7 2.3
6 7 8 9 10	1.6 1.5 1.5 1.5 1.5	e1.3 1.4 1.4 e1.3 e1.3	e1.1 1.3 1.3 1.2 1.2	1.1 1.1 1.1 1.1 e0.98	1.0 1.1 e1.0 1.1 1.0	1.0 1.1 1.1 e1.1 e1.3	4.4 4.4 4.3 4.2 3.9	28 32 38 40 45	27 30 30 27 24	5.9 5.6 5.5 5.3 5.0	2.5 2.0 1.6 1.5 1.3	2.4 2.4 2.0 1.7 1.7
11 12 13 14 15	2.1 1.7 1.6 1.5 1.5	e1.3 e1.3 1.4 e1.3 1.4	1.3 1.2 1.2 1.2 1.2	1.1 1.1 e0.98 e0.98 e0.98	1.1 1.0 1.1 1.1 1.1	e1.3 e1.4 1.5 1.4 1.4	3.6 3.5 3.7 4.5 4.9	45 37 30 25 24	20 17 16 16 15	4.8 4.5 4.2 4.0 4.0	0.99 1.1 1.1 1.1 1.1	1.7 1.6 1.5 1.5 1.5
16 17 18 19 20	1.5 1.4 1.4 1.4 1.4	e1.3 1.4 e1.3 e1.3 e1.3	1.2 1.2 1.2 e1.1 e1.1	1.1 1.1 1.1 1.1 1.1	1.1 1.0 1.1 1.1 1.0	1.3 1.3 1.4 1.7 2.2	5.6 6.5 6.3 5.6 5.2	23 23 26 32 37	15 14 17 15 14	3.9 3.6 3.4 3.1 4.3	1.1 1.3 7.0 3.8	1.5 1.4 1.4 1.7 2.2
21 22 23 24 25	1.4 1.3 1.3 1.3 1.2	1.3 1.3 e1.2 e1.2 e1.2	e1.1 1.2 e1.0 e1.0 1.2	1.1 1.1 e0.96 e0.96 e0.96	1.0 1.0 1.0 1.0 1.0	e2.8 3.3 3.7 3.6 4.2	4.7 4.4 4.0 3.7 3.9	38 36 33 30 27	15 12 11 10 10	3.4 3.1 3.5 4.3 3.2	3.2 2.4 1.7 1.7 1.8	2.2 2.2 2.2 2.5 3.0
26 27 28 29 30 31	e1.3 e1.3 1.4 1.4 1.4	e1.2 1.2 1.2 1.2 1.2	1.1 1.1 1.1 1.1 1.1	1.1 1.1 1.1 1.1 1.1 e0.94	1.0 1.0 1.0 1.0	4.8 4.6 3.4 3.1 3.0 3.5	4.2 5.5 6.2 7.0 7.6	27 26 27 30 25 22	9.9 8.7 8.5 10 12	2.8 2.7 2.7 3.0 2.8 3.0	1.5 1.5 1.5 1.4 1.3 1.4	3.0 2.8 2.5 2.6 3.8
TOTAL MEAN MAX MIN AC-FT	46.4 1.50 2.1 1.2 92	38.8 1.29 1.4 1.2 77	36.3 1.17 1.3 1.0 72	32.82 1.06 1.1 0.94 65	30.3 1.04 1.1 1.0 60	65.7 2.12 4.8 1.0 130	144.3 4.81 7.6 3.5 286	862.9 27.8 45 6.8 1,710	501.1 16.7 30 8.5 994	142.9 4.61 11 2.7 283	61.19 1.97 7.0 0.99 121	60.9 2.03 3.8 1.3 121
					YEARS 1964			` ′	48.0	11.5	2.40	2.10
MEAN MAX (WY) MIN (WY)	1.97 5.14 (1985) 0.92 (1989)	1.52 3.80 (1985) 0.57 (1977)	1.23 2.60 (1985) 0.51 (1977)	1.07 2.14 (1985) 0.52 (1987)	1.00 2.14 (1985) 0.48 (1987)	1.15 2.12 (2004) 0.46 (1987)	3.55 6.60 (1971) 1.47 (1973)	30.2 69.9 (1996) 6.85 (1995)	48.0 92.0 (1983) 11.0 (2002)	11.5 44.0 (1983) 1.95 (2002)	3.48 15.0 (1983) 1.03 (2002)	2.18 5.57 (1984) 0.98 (1987)
SUMMAI	RY STATIST	TICS		FOR 2003 (	CALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 196	4 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE 50 PERCE	MEAN ANNUAL MANNUAL MANNUAL ME DAILY ME DAILY ME	MEAN AN AN Y MINIMUL OW AC-FT) DS DS	M	7,74	0.7 5 Jun 0.88 Feb 0.89 Feb	20	5 1 4,0	1.0 Feb 59 May 53.66 May	1 31 20 7 10	2 a	0.20 Ja 0.34 Ja 289 Ju	1983 2002 n 1, 2003 n 30, 1970 n 28, 1970 n 1, 2003 n 1, 2003

e Estimated.

a From crest-stage gage.
b Maximum gage height, 5.43 ft, Mar 9, 2004, backwater from avalanche.

## **09066510 GORE CREEK AT MOUTH NEAR MINTURN, CO** (Eagle River Watershed Retrospective Assessment Program)

 $LOCATION.--Lat~39°36'34", long~106°26'50", in~NE^{1}_{4}NW^{1}_{/4}~sec. 22, T.5~S., R.81W., Eagle~County, Hydrologic~Unit~14010003, on left bank~0.1~mi~upstream~from~the~confluence~with~Eagle~River~and~2~mi~northwest~of~Minturn.$ 

DRAINAGE AREA.-- 102 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1995 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=09066510

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,730 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversion upstream from station for Vail water treatment plant.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	31 32 34 32 32	21 22 25 22 20	21 20 19 19 21	e19 e19 e20 e20 e20	18 18 17 e18 e18	18 18 20 19	66 76 76 76 e83	115 121 152 208 267	250 246 277 332 387	187 172 156 142 129	57 54 53 51 48	26 26 25 30 39	
6 7 8 9 10	30 29 28 27 27	22 22 23 23 26	20 21 20 19 e20	e21 e21 e20 e20 e20	e18 e18 e18 e18	18 19 19 22 24	e85 e87 e92 95 87	353 418 442 430 444	466 505 503 461 420	125 121 116 111 107	48 45 43 39 37	39 47 43 38 36	
11 12 13 14 15	34 29 27 25 26	26 24 26 28 26	e22 e22 e21 e21 e21	e19 e19 e19 e19 e19	e18 e18 e18 e18	23 25 27 28 27	78 76 75 82 88	466 407 321 271 242	345 286 277 310 311	101 95 90 87 100	35 33 31 30 29	35 33 32 29 27	
16 17 18 19 20	26 25 24 24 23	22 25 22 24 25	e21 e21 e21 e20 e20	e19 19 e19 e19 e19	e18 e18 e18 e18	25 25 27 31 40	96 114 119 108 100	228 226 248 335 438	289 273 265 251 247	121 110 98 93 102	29 29 38 75 60	26 25 25 27 33	
21 22 23 24 25	22 23 22 22 20	25 24 e21 e22 e23	e20 e20 e20 e20 e20	e18 e18 e18 e18	e18 e18 e18 e18	52 62 70 71 78	96 89 82 78 82	e467 e428 e369 e343 e290	253 222 200 197 195	94 82 80 90 77	54 48 45 40 38	40 43 41 41 47	
26 27 28 29 30 31	18 23 23 22 22 22	e23 e23 e22 e22 22	e19 e19 e19 e19 e19 e19	e18 e18 e18 18 19	18 19 19 19 	80 77 64 55 53 56	e88 e98 e112 119 124	e281 324 354 398 314 275	190 180 172 176 192	72 70 69 67 62 62	36 34 33 30 28 27	51 51 48 47 61	
TOTAL MEAN MAX MIN AC-FT	802 25.9 34 18 1,590	701 23.4 28 20 1,390	624 20.1 22 19 1,240	589 19.0 21 18 1,170	525 18.1 19 17 1,040	1,192 38.5 80 18 2,360	2,727 90.9 124 66 5,410	9,975 322 467 115 19,790	8,678 289 505 172 17,210	3,188 103 187 62 6,320	1,277 41.2 75 27 2,530	1,111 37.0 61 25 2,200	
				R WATER YE				, ,	504	1.00		40.5	
MEAN MAX (WY) MIN (WY)	34.9 48.5 (1998) 25.6 (2003)	26.2 33.3 (1997) 18.2 (2000)	21.7 27.0 (1997) 18.3 (2003)	19.2 26.6 (1997) 15.9 (2002)	18.2 22.3 (1997) 14.0 (2002)	27.8 42.4 (1997) 16.3 (2002)	76.3 102 (1996) 48.1 (1998)	427 678 (1996) 224 (2002)	591 1,103 (1997) 196 (2002)	168 291 (1997) 39.1 (2002)	61.4 108 (1997) 20.6 (2002)	40.7 57.4 (2003) 23.4 (2002)	
SUMMAI	RY STATIST	ICS		FOR 2003 CA	LENDAR	YEAR	FOR 200	)4 WATER Y	EAR	WATER	YEARS 1996	6 - 2004	
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCI 50 PERCI	. MEAN T ANNUAL M T ANNUAL M T DAILY ME T DAILY ME	IEAN AN AN Y MINIMUN OW 'AGE AC-FT) DS DS	Л	52,833 145 1,960 14 15 104,800 534 31 17	Jun Feb Feb		50 62 62,20 27	95.8 05 Jur 17 Feb 18 Jur 42 Jur 7.96 Jur 60	7 3 31 7 7	2,, 91,	11 Sej 11 Sej 690 Jui a10.88 Jui	1996 2002 n 1,2003 p 2,2002 p 1,2002 n 1,2003 n 1,2003	

e Estimated. a From highwater marks.

## 09067000 BEAVER CREEK AT AVON, CO

LOCATION.--Lat 39°37'47", long 106°31'20", in NE \(^1/4\)SW\(^1/4\) sec.12, T.5 S., R.82 W., Eagle County, Hydrologic Unit 14010003, on left bank at Avon, 550 ft upstream from U.S. Highway 6 and 24, and 700 ft upstream from mouth.

DRAINAGE AREA.--14.8 mi<sup>2</sup>.

PERIOD OF RECORD.--January to December 1911, January 1912 to September 1914 (gage heights and discharge measurements only), May 1974 to February 1988, October 1988 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09067000

REVISED RECORDS.--WDR CO-88-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 7,453 ft above NGVD of 1929, from topographic map. Prior to May 1, 1974, nonrecording gage near present site, at different datum.

REMARKS.—Records fair except for estimated daily discharges, and the period June 8-24, which are poor. Diversions upstream from station for irrigation upstream and downstream from station. Slight natural regulation by several small lakes in headwaters.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	2.7 2.9 2.9 3.2 3.2	2.6 2.9 3.3 2.9 2.7	2.6 e2.7 e2.6 e2.6 2.6	e2.3 e2.3 e2.3 e2.3 e2.4	2.5 2.4 2.4 2.4 2.4	2.5 e2.3 2.5 2.6 2.6	6.6 6.7 7.1 7.1 8.0	9.0 9.7 11 13 15	26 25 27 31 34	19 17 15 14 14	6.7 6.6 6.7 6.4 6.1	3.2 2.9 3.0 3.4 4.4
6 7 8 9 10	3.0 2.5 2.9 3.2 2.7	2.8 2.8 2.8 2.7 3.2	2.6 2.7 e2.7 e2.6 e2.6	e2.4 e2.4 e2.4 e2.4 e2.3	2.4 e2.3 2.3 2.3 e2.2	2.6 2.7 2.8 3.2 3.3	8.3 7.8 7.9 9.0 8.4	18 20 21 24 27	42 47 55 51 49	13 13 12 12 12	6.0 5.8 5.5 4.9 4.8	4.2 3.5 2.9 2.8 2.9
11 12 13 14 15	3.6 3.2 3.1 3.0 3.1	3.7 3.1 3.2 3.5 3.0	2.5 2.4 e2.3 e2.3 e2.3	e2.4 e2.4 e2.3 e2.3 e2.3	2.3 e2.0 e2.0 e2.0 e2.1	3.3 3.4 3.5 3.5 3.7	7.5 7.3 7.3 7.9 8.5	29 26 22 18 16	43 36 45 37 38	12 11 11 11 11	4.7 3.9 4.0 4.3 4.4	3.4 2.7 2.8 2.6 2.7
16 17 18 19 20	2.9 2.4 2.6 2.7 2.0	2.8 3.0 2.9 2.8 2.8	e2.3 e2.3 e2.3 e2.3 e2.4	e2.3 2.5 2.5 2.4 e2.4	e2.1 2.5 2.6 2.6 2.6	3.6 3.8 4.1 4.5 5.1	8.5 8.7 8.8 8.5 8.3	17 18 20 25 32	37 33 32 32 32	11 11 11 10 9.7	4.2 3.9 4.9 8.1 7.2	2.6 2.6 2.4 2.9 3.9
21 22 23 24 25	2.4 1.8 2.3 3.0 2.5	2.7 e2.7 e2.6 e2.6 e2.6	e2.3 e2.4 e2.4 e2.3 e2.3	e2.4 e2.3 e2.2 e2.2 e2.2	2.4 2.3 2.3 2.2 2.2	5.2 5.5 5.7 e4.8 e5.1	7.9 7.5 7.0 6.9 8.1	35 36 32 31 30	34 33 30 28 21	9.2 10 9.4 11 9.7	6.0 6.1 5.9 5.0 4.9	4.5 4.8 4.4 4.2 4.3
26 27 28 29 30 31	2.3 2.7 2.7 2.6 2.8 2.5	e2.5 e2.6 e2.5 e2.6 e2.6	e2.3 e2.3 e2.3 e2.3 e2.3 e2.3	e2.2 e2.2 e2.2 e2.2 2.6 2.6	2.2 2.3 2.4 2.4	6.9 6.6 5.6 5.1 5.0 5.4	8.1 8.8 9.4 10 9.9	29 29 32 36 33 29	20 18 18 17 21	9.0 10 9.8 8.2 7.5 7.4	4.5 4.2 4.4 3.8 3.7 3.3	4.2 3.8 3.7 e3.5 e4.5
TOTAL MEAN MAX MIN AC-FT	85.4 2.75 3.6 1.8 169	85.5 2.85 3.7 2.5 170	75.2 2.43 2.7 2.3 149	72.6 2.34 2.6 2.2 144	67.1 2.31 2.6 2.0 133	126.5 4.08 6.9 2.3 251	241.8 8.06 10 6.6 480	742.7 24.0 36 9.0 1,470	992 33.1 55 17 1,970	350.9 11.3 19 7.4 696	160.9 5.19 8.1 3.3 319	103.7 3.46 4.8 2.4 206
			N DATA FC 2.95		EARS 1974 - 2.40	- 2004, BY W 3.02	VATER YEAI	R (WY) 29.6	59.3	27.0	9.50	5 57
MEAN MAX (WY) MIN (WY)	4.40 8.42 (1998) 2.28 (1981)	3.58 5.78 (1997) 2.07 (1980)	5.01 (1984) 1.65 (1995)	2.51 4.17 (1986) 1.44 (1981)	3.99 (1986) 1.51 (1977)	3.02 4.71 (1997) 1.49 (1977)	6.54 11.2 (1996) 2.48 (1975)	29.6 60.3 (2000) 11.5 (1977)	114 (1983) 17.5 (2002)	27.0 79.5 (1983) 4.69 (2002)	25.6 (1984) 2.34 (1977)	5.57 10.6 (1984) 1.41 (1977)
SUMMAR	RY STATIST	ICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 197	4 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS		4,554.6 12.5 e145 Jun 1 1.8 Oct 22			22	3,104.3 8.48 55 Jun 8 1.8 Oct 22 2.1 Feb 10 57 Jun 7 a2.44 Jun 7 6,160 26 3.5			13.0 22.7 4.94 197 242 Jun 27, 198. 0.55 Sep 10, 197 249 Jun 27, 198. 3.46 9,430 38 4.4			
90 PERCENT EXCEEDS				2	2.2			2.3			2.1	

e Estimated.
a Maximum gage height, 3.06 ft, Jan 22, backwater from ice.

## 09067020 EAGLE RIVER BELOW WASTEWATER TREATMENT PLANT AT AVON, CO

 $LOCATION.--Lat~39°38'06", long~106°31'57", in~NE^{1}_{4}NE^{1}_{4}~sec. 11, T.5~S., R.82~W., Eagle~County, Hydrologic~Unit~14010003, on right bank~60~ft~downstream~from~Eagle~River~Wastewater~Treatment~Plant~effluent~discharge~point, and 0.2~mi~upstream~from~Beaver~Creek~Boulevard~bridge, in the city of~Avon.$ 

DRAINAGE AREA.--402 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1999 to current year. October 1988 to September 1999, streamflow data were collected 0.6 mi upstream at site 09067005 Eagle River at Avon; streamflow records are considered to be equivalent. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09067020

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 7,380 ft above NAVD of 1988, from topographic map. Prior to October 14, 1999, streamflow data were collected 0.6 mi upstream at site 09067005 Eagle River at Avon; streamflow records are considered to be equivalent.

REMARKS.--No estimated daily discharges. Records good except Dec. 15 to Feb. 26, which are fair, and discharges below 60 ft<sup>3</sup>/s, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, and diversions for irrigation and municipal use.

JUN

JUL

AUG

SEP

#### DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY

1	101	67	79	58	49	61	189	289	726	599	166	84
2	105	71	74	59	50	60	217	290	697	513	160	81
3	115	81	71	55	49	64	220	364	774	445	153	80
4	111	76	66	54	53	63	207	512	957	403	141	86
5	102	68	67	36	52	64	239	676	1,080	367	138	111
6	97	74	73	40	52	60	250	896	1,310	372	144	113
7	91	77	71	64	47	62	251	1,070	1,470	346	134	111
8	88	76	70	59	57	64	259	1,140	1,500	326	126	105
9	87	72	67	51	54	70	286	1,130	1,380	312	116	95
10	86	86	58	48	42	77	257	1,150	1,330	297	107	93
11	105	87	72	45	56	74	221	1,250	1,100	285	101	94
12	99	75	65	37	32	76	217	1,120	906	266	96	91
13	91	83	63	34	37	81	206	894	824	257	94	87
14	86	90	74	39	43	83	223	704	942	254	89	84
15	84	85	67	49	57	85	239	594	1,000	272	88	82
16	82	74	58	52	60	79	257	554	935	321	87	79
17	80	84	55	48	60	78	295	576	827	371	90	76
18	78	76	62	46	61	83	306	618	821	314	111	75
19	78	73	60	47	60	95	274	888	752	329	217	80
20	77	78	62	51	60	118	261	1,200	729	320	221	99
21	77	80	66	44	58	143	246	1,270	767	285	184	122
22	75	81	67	44	60	171	225	1,250	663	243	167	138
23	73	58	54	45	58	193	211	1,080	542	224	161	129
24	72	54	54	49	59	205	194	1,060	537	256	142	128
25	70	76	61	47	62	232	211	996	539	225	126	131
26 27 28 29 30 31	70 81 80 76 72 68	80 73 59 76 82	61 58 51 54 57 56	37 42 50 50 50 51	61 63 63 62	240 241 193 161 158 164	204 226 279 308 326	930 969 1,030 1,200 1,010 835	537 516 490 476 597	203 240 218 195 182 179	113 106 108 102 95 92	134 130 123 120 147
TOTAL	2,657	2,272	1,973	1,481	1,577	3,598	7,304	27,545	25,724	9,419	3,975	3,108
MEAN	85.7	75.7	63.6	47.8	54.4	116	243	889	857	304	128	104
MAX	115	90	79	64	63	241	326	1,270	1,500	599	221	147
MIN	68	54	51	34	32	60	189	289	476	179	87	75
AC-FT	5,270	4,510	3,910	2,940	3,130	7,140	14,490	54,640	51,020	18,680	7,880	6,160
				OR WATER YI				` /				
MEAN	98.2	75.2	65.8	60.1	57.6	77.3	249	1,117	1,098	298	142	120
MAX	128	78.6	83.9	74.9	69.1	116	298	1,665	1,724	419	188	166
(WY)	(2000)	(2001)	(2001)	(2001)	(2000)	(2004)	(2000)	(2000)	(2003)	(2003)	(2001)	(2003)
MIN	77.2	70.9	55.1	47.8	48.0	53.5	220	555	488	114	65.1	80.0
(WY)	(2002)	(2002)	(2003)	(2004)	(2003)	(2002)	(2003)	(2002)	(2002)	(2002)	(2002)	(2002)
SUMMAI	RY STATIST	TCS		FOR 2003 C	ALENDAR	YEAR		4 WATER Y	EAR	WATER	YEARS 200	00 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN				132,595 363 3,970 May 30 40 Jan 18			90,633 248 1,500 Jun 8 32 Feb 12			3,9		2000 2002 (ay 30, 2003 (ep 6, 2002
ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCI	J SEVEN-DA JM PEAK FL JM PEAK ST J RUNOFF (A ENT EXCEE	Y MINIMUN OW 'AGE AC-FT) DS	Л	263,000 1,250	Jan		1,68 179,80 78	43 Jar 80 Jur 6.44 Jur 90		4,6 209,2	31 S 670 M 9.26 M 200 827	ep 2, 2002 (ay 30, 2003 (ay 30, 2003
	ENT EXCEE ENT EXCEE			101 49				95 53			95 53	

a Also occurred Sep 7, 2002.

# EAGLE RIVER BASIN 261

# 09067200 LAKE CREEK NEAR EDWARDS, CO

LOCATION.--Lat 39°38'51", long 106°36'31", in  $SE^{1}_{4}NE^{1}_{4}$  sec.6, T.5 S., R.82 W., Eagle County, Hydrologic Unit 14010003, on right bank 30 ft upstream from U.S. Highway 6, and 1.0 mi west of Edwards.

DRAINAGE AREA.--49.0 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1993 to current year. Published as station number 09066980 during the 1994-96 water years. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/? site\_no=09067200

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,160 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by diversions for irrigation, and return flow from irrigated areas

					R YEAR OC		ET PER SECO TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	19 17 20 19 18	15 17 18 16 16	14 13 13 13 12	e10 e11 e11 e11	e9.1 e9.0 e8.9 e8.8 e8.7	7.3 7.7 7.6 7.5 7.7	22 25 26 26 30	31 31 40 61 90	83 85 108 160 191	164 131 111 98 90	42 40 37 34 34	13 12 12 14 20
6 7 8 9 10	15 16 16 15 15	17 17 18 17 19	13 13 14 13 14	12 11 11 11 11	e8.6 e8.5 e8.5 e8.5 e8.3	7.5 8.0 8.5 9.0 9.5	31 31 31 33 33	129 173 180 177 187	264 303 307 264 235	92 90 86 86 83	34 31 29 27 24	19 16 15 14 15
11 12 13 14 15	22 20 19 19	17 16 17 17 16	13 13 13 13 13	11 12 13 12 e12	e8.3 e8.2 e8.1 e8.1	9.3 9.5 10 10	29 28 26 26 26	200 172 116 88 70	170 120 114 164 184	80 76 74 78 82	23 22 21 19 18	15 14 13 13 13
16 17 18 19 20	19 19 19 18 18	14 16 14 14 14	13 15 14 13 12	e11 e10 e10 e10 e10	e8.1 e8.0 e7.9 e7.8 7.8	9.8 10 11 12 14	28 32 34 31 30	68 76 89 160 225	170 150 152 136 133	81 97 83 93 78	18 17 22 43 52	14 12 11 12 21
21 22 23 24 25	18 17 17 16 16	15 14 e12 e14 15	12 12 12 12 11	e10 e10 e9.9 e9.9	7.4 7.3 7.3 7.3 7.2	15 17 19 24 29	27 23 22 20 23	228 205 147 148 130	131 109 96 106 113	78 65 59 e63 e55	42 e36 e32 e30 28	28 30 28 26 27
26 27 28 29 30 31	15 19 18 16 16	15 14 15 15 15	e11 e11 e11 e11 e11	e9.8 e9.7 e9.6 e9.5 e9.4 e9.3	7.3 7.2 7.4 7.3	28 28 23 21 21 21	22 22 28 32 34	129 132 148 198 136 103	116 109 111 109 165	e48 71 59 52 49 46	26 24 23 21 19 16	28 29 27 25 32
TOTAL MEAN MAX MIN AC-FT	545 17.6 22 15 1,080	469 15.6 19 12 930	388 12.5 15 10 770	328.0 10.6 13 9.3 651	233.0 8.03 9.1 7.2 462	432.9 14.0 29 7.3 859	831 27.7 34 20 1,650	4,067 131 228 31 8,070	4,658 155 307 83 9,240	2,498 80.6 164 46 4,950	884 28.5 52 16 1,750	568 18.9 32 11 1,130
MEAN MAX (WY) MIN (WY)	27.2 44.8 (1998) 16.1 (2002)	20.3 28.4 (1996) 13.7 (2002)	13.7 19.0 (1996) 10.6 (2002)	11.7 16.0 (1997) 8.70 (2003)	10.8 13.3 (1998) 8.03 (2004)	12.6 14.9 (1997) 8.92 (2002)	24.0 36.1 (2000) 15.4 (1995)	130 197 (2000) 43.8 (1995)	232 418 (1997) 90.5 (2002)	113 293 (1995) 22.2 (2002)	52.6 125 (1995) 14.5 (2002)	32.3 56.0 (1997) 18.9 (2004)
SUMMAI	RY STATIST	ICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 199	4 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			M	FOR 2003 CALENDAR YEAR 21,871.3 59.9  733 May 29 7.7 Jan 15 8.2 Jan 24  43,380 174 19 8.9			15,901.9 43.4 307 Jun 8 7.2 Feb 25 7.3 Feb 21 426 Jun 8 2.64 Jun 8 31,540 129 19 9.0			1,2 41,	a5.4 Se 5.6 Se 290 Ju 3.63 Ju	1997 2002 nn 16, 1995 pp 5, 2002 pp 2, 2002 nn 16, 1995 nn 16, 1995

e Estimated.

a Also occurred Sep 6,7, 2002.

262 EAGLE RIVER BASIN

# 09070000 EAGLE RIVER BELOW GYPSUM, CO

 $LOCATION.--Lat\ 39^{\circ}38'58", long\ 106^{\circ}57'11", in\ SW^{1}_{4}NW^{1}_{4}\ sec.5,\ T.5\ S.,\ R.85\ W.,\ Eagle\ County,\ Hydrologic\ Unit\ 14010003,\ on\ right\ bank\ 20\ ft\ downstream\ from\ Gypsum\ Creek.$ 

DRAINAGE AREA.--944 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1946 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09070000

REVISED RECORDS.--WDR CO-88-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Datum of gage is 6,275.11 ft, above NGVD of 1929.

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversions upstream from station, see elsewhere in this report. Transbasin diversions upstream from station from Robinson Reservoir (capacity, 2,520 acre-ft) to Tenmile Creek for mining development. Many small diversions for irrigation of hay meadows upstream from station.

					YEAR OC		ET PER SECO TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	175 176 196 193 182	147 156 175 183 173	179 173 169 166 156	145 156 149 151 116	132 138 134 134 137	141 138 146 151 151	299 326 345 341 357	436 409 456 604 790	916 850 903 1,080 1,210	929 779 675 612 561	311 298 290 260 245	141 132 130 143 169
6 7 8 9 10	174 169 170 166 161	171 173 174 172 175	164 167 167 165 143	88 140 177 166 151	143 136 144 157 142	145 143 153 166 183	395 379 391 430 464	1,060 1,300 1,410 1,410 1,390	1,540 1,800 1,960 1,780 1,710	561 529 505 477 466	252 243 232 211 193	189 182 169 164 158
11 12 13 14 15	173 185 177 173 179	197 188 178 190 190	155 157 151 162 163	134 114 107 109 120	144 140 122 135 158	e198 e187 e199 e205 e191	401 386 362 363 377	1,540 1,440 1,150 924 778	1,420 1,150 1,020 1,120 1,230	454 432 413 416 427	180 173 165 158 156	155 153 147 139 135
16 17 18 19 20	179 179 173 170 166	183 176 177 166 170	125 104 124 131 128	150 147 144 138 142	157 153 150 154 155	e180 e163 e159 183 e223	384 417 449 421 394	705 723 736 989 1,410	1,190 1,080 1,060 1,010 969	468 518 511 500 501	154 150 167 256 354	130 124 121 130 165
21 22 23 24 25	166 162 157 150 146	176 189 161 142 165	153 165 142 115 122	129 134 136 138 142	152 149 149 146 153	e252 e266 e298 338 375	379 367 343 324 335	1,570 1,570 1,300 1,280 1,210	968 946 770 751 755	473 414 376 402 394	316 281 274 251 215	239 278 269 250 247
26 27 28 29 30 31	146 156 165 161 155 149	184 186 147 145 176	150 144 127 120 145 152	123 117 132 137 135 136	154 157 158 151	376 397 348 300 297 285	340 335 381 434 458	1,110 1,140 1,170 1,460 1,290 1,050	778 760 718 684 853	354 381 386 349 342 330	198 187 189 182 166 156	245 242 228 224 267
TOTAL MEAN MAX MIN AC-FT	5,229 169 196 146 10,370	5,185 173 197 142 10,280	4,584 148 179 104 9,090	4,203 136 177 88 8,340	4,234 146 158 122 8,400	6,937 224 397 138 13,760	11,377 379 464 299 22,570	33,810 1,091 1,570 409 67,060	32,981 1,099 1,960 684 65,420	14,935 482 929 330 29,620	6,863 221 354 150 13,610	5,465 182 278 121 10,840
				OR WATER YI		,		` ′	2.240	977	277	266
MEAN MAX (WY) MIN (WY)	257 526 (1962) 129 (1957)	238 382 (1985) 164 (2003)	196 277 (1985) 136 (2003)	181 243 (1984) 136 (2004)	173 252 (1986) 125 (1992)	189 297 (1986) 138 (1965)	351 862 (1962) 183 (1983)	1,339 2,722 (1984) 528 (1977)	2,240 4,134 (1984) 597 (2002)	2,989 (1957) 170 (2002)	377 1,096 (1984) 124 (2002)	266 625 (1984) 141 (1956)
SUMMAR	RY STATIST	ICS		FOR 2003 CA	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 194	17 - 2004
LOWEST		IEAN		188,138 515 5,140	Jun	1	135,80 37	71	ı 8	1,0	566 082 255 580 M	1984 2002 ay 25, 1984
LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT)		М	95 119 373,200	Feb Feb	8		38 Jar 26 Jar 90 Jur 6.22 Jur	n 6 n 11 n 8 n 8	ŕ	70 S 72 S 020 M 9.46 M	ep 6, 2002 ep 1, 2002 ay 25, 1984 ay 25, 1984	
10 PERCE 50 PERCE	ENT EXCEEI ENT EXCEEI ENT EXCEEI	OS OS		1,670 185 130			99 18 13	95 33		1,5	540 241 157	

e Estimated.

# COLORADO RIVER MAIN STEM

#### 09070500 COLORADO RIVER NEAR DOTSERO, CO

 $LOCATION.--Lat~39^{\circ}38'38'', long~107^{\circ}04'38'', in~NW^{1}/_{4}~SE^{1}/_{4}~sec.6, T.5~S., R.86~W., Eagle~County, \\ Hydrologic~Unit-~14010001, on~left~bank~about~500~ft~south~of~Interstate~Highway~70, 1.5~mi~west~of~Dotsero, and~1.5~mi~downstream~from~Eagle~River.$ 

DRAINAGE AREA.--4,394 mi<sup>2</sup>.

 $PERIOD\ OF\ RECORD. -- October\ 1940\ to\ current\ year.\ For\ a\ complete\ listing\ of\ historical\ data\ available\ for\ this\ site,\ see\ http://waterdata.usgs.gov/co/nwis/inventory/\\ ?site\_no=09070500$ 

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gages. Elevation of gage is 6,130 ft above NGVD of 1929, from topographic map.

REMARKS.—Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power development, diversions for irrigation of about 68,000 acres upstream from station, and return flow from irrigated areas.

#### DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

					DAI	LI MEAN V	ALULS					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,530	1,330	917	e754	e653	622	844	1,040	1,830	1,590	1,260	1,270
2.	1,530	901	870	e754	e649	616	924	993	1,650	1,430	1,230	1,250
3 4	1,580	922 910	809	e742 e729	e645 e636	710 706	968 943	1,060 1,260	1,660 1.820	1,340 1,250	1,250	
5	1,600 1,610	1,060	757 744	e729 e716	e636	698	943 979	1,530	2,110	1,250	1,250 1,270	
6	1,600	840	799	e712	e641	678	1,050	1,930	2,480	1,080	1,310	,
7	1,590	758	799 779	e712	e636	681	1,030	2,280	2,480	1,080	1,310	
8	1,580	743	780	e746	e628	704	1,060	2,510	3,010	1,020	1,280	
9	1,560	733	758	e737	e611	737	1,120	2,590	2,830	962	1,240	
10	1,560	732	648	e712	e611	769	1,180	2,570	2,700	917	1,210	
11	1,570	764	665	e695	e611	767	1,060	2,770	2,370	917	1,310	
12 13	1,610 1,590	751 744	743 811	e679 e657	e611 e607	731 745	984 932	2,640 2,270	2,020 1,800	944 904	1,230 1,210	
14	1,570	745	814	e674	e620	761	914	1,930	1,840	865	1,210	
15	1,540	745	840	e695	e656	759	930	1,700	1,970	932	1,230	1,230
16	1,530	730	747	e716	e656	743	934	1,630	1,930	1,200	1,210	1,240
17	1,530	722	743	e708	e707	697	974	1,580	1,790	1,280	1,220	
18 19	1,500 1,500	710 763	781 841	e679 e695	e683 e660	712 757	1,040 1,030	1,570 1,780	1,780 1,770	1,350 1,530	1,270 1,390	
20	1,510	703	885	e704	648	841	984	2,280	1,770	1,350	1,650	
21	1,520	807	886	e683	626	948	953	2,540	1,770	1.460	1,660	,
22	1,490	833	883	e666	657	1,000	950	2,630	1,770	1,410	1,540	
23	1,490	721	854	e674	645	1,050	900	2,340	1,510	1,320	1,410	
24	1,480	635	823	e700	648	1,100	854	2,210	1,410	1,410	1,350	
25	1,460	829	760	e674	670	1,160	852	2,080	1,380	1,460	1,310	
26 27	1,390 1,320	834 880	787 745	e657 e666	646 684	1,220 1,230	857 827	1,950 1,970	1,350 1,330	1,360 1,360	1,270 1,280	
28	1,330	809	e716	e683	679	1,090	887	1,990	1,300	1,360	1,290	
29	1,340	846	e708	e704	657	943	995	2,330	1,260	1,290	1,270	962
30	1,320	877	e729	e691		860	1,060	2,340	1,430	1,260	1,230	
31	1,350		e750	e666		814		2,040		1,290	1,240	
TOTAL	46,680	24,452	24,372	21,680	18,717	25,849	29,015	62,333	56,470	38,081	40,390	
MEAN MAX	1,506 1,610	815 1,330	786 917	699 754	645 707	834 1,230	967 1,180	2,011 2,770	1,882 3,010	1,228 1,590	1,303 1,660	
MIN	1,320	635	648	657	607	616	827	993	1,260	865	1,210	
AC-FT	92,590	48,500	48,340	43,000	37,130	51,270	57,550	123,600	112,000	75,530	80,110	
STATIST	ICS OF MON	NTHLY MEA	N DATA FO	R WATER YI	EARS 1941 -	- 2004, BY W	ATER YEAR	R (WY)				
MEAN	1,212	1,075	939	895	906	1,031	1,829	4,711	6,178	3,053	1,702	1,300
MAX	2,038	1,664	1,503	1,473	1,603	1,961	5,601	10,770	13,440	9,354	4,055	
(WY)	(1963)	(1963)	(1985)	(1985)	(1962)	(1962)	(1962)	(1984)	(1984)	(1983)	(1984)	
MIN (WY)	707 (2003)	677 (1978)	521 (1943)	504 (1941)	529 (1943)	610 (1964)	967 (2004)	1,254 (2002)	1,220 (2002)	1,021 (1963)	912 (2002)	
(W1)	(2003)	(1970)	(1943)	(1941)	(1943)	(1904)	(2004)	(2002)	(2002)	(1903)	(2002)	(2002)
SUMMAF	RY STATIST	TICS		FOR 2003 CA	ALENDAR '	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 1	1941 - 2004
ANNUAL				543,676			424,51					
ANNUAL	. MEAN ' ANNUAL I	MFΔN		1,490			1,16	5U			)71 173	1984
	ANNUAL M										398	2002
HIGHEST	DAILY ME	AN		10,900	Jun		3,01			20,8	300	May 25, 1984
	DAILY ME		4	454 523	Feb		60				350	Jan 5, 1944
	. SEVEN-DA IM PEAK FL	AY MINIMUN OW	/1	323	Jan	10	61 3,24			22,2	117 200	Jan 13, 1944 May 25, 1984
MAXIMU	M PEAK ST	AGE					*	4.51 Jun	8	,	14.20	May 25, 1984
	RUNOFF (A			1,078,000			842,00			1,501,0		
	ENT EXCEE ENT EXCEE			2,980 1,190			1,79 1,04				730 250	
	ENT EXCEE			587			67				750	

e Estimated.

a Also occurred Jan 1, 1995.

# 09073300 ROARING FORK RIVER ABOVE DIFFICULT CREEK NEAR ASPEN, CO

LOCATION.--Lat 39°08'28", long 106°46'25", Pitkin County, Hydrologic Unit 14010004, on left bank in the White River National Forest at Difficult Creek Campground, 0.45 mi upstream from Difficult Creek, and 4.25 mi southeast of Aspen.

DRAINAGE AREA.--75.8 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1979 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=09073300

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,120 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Transmountain diversion 11 mi upstream through Twin Lakes Tunnel to Arkansas River Basin since May 24, 1935 (35,550 acre-ft diverted during current year, provided by Colorado Division of Water Resources).

	·	, , ,			R YEAR OC		ET PER SECO TO SEPTEM ALUES		Ź			
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	27 32 35 32 31	11 11 12 11	11 11 11 11 11	11 11 11 9.7 e10	8.7 8.9 9.0 9.0 8.9	7.9 9.2 9.3 9.1 8.9	27 28 27 26 29	32 32 37 48 63	66 63 64 69 79	51 43 40 38 37	17 17 22 43 43	24 23 23 29 36
6 7 8 9 10	30 28 27 26 25	11 12 12 12 12 13	11 12 12 11 e11	e8.0 e11 9.6 9.4 9.4	8.5 e7.8 9.1 8.8 e8.3	8.8 9.0 9.0 9.5	30 32 33 35 31	82 93 99 100 103	97 111 111 104 95	38 35 34 32 31	43 43 41 39 38	36 34 30 27 26
11 12 13 14 15	28 27 26 22 24	12 11 13 13 12	e11 e11 e9.3 11	9.4 9.4 9.3 9.4 9.4	9.1 e8.8 e7.9 8.8 8.7	9.5 9.9 11 11 12	28 28 27 28 29	110 94 75 63 54	83 72 65 67 70	29 28 27 27 27	36 36 35 34 31	27 25 26 24 24
16 17 18 19 20	25 22 17 17 16	11 13 10 12 13	e9.0 e11 11 11	9.4 9.3 9.2 e9.8 9.4	8.7 8.8 8.8 8.8 8.7	11 11 12 14 17	32 34 34 32 30	57 64 69 91 105	65 63 61 56 54	27 31 28 27 27	31 31 30 34 37	24 24 26 30 38
21 22 23 24 25	16 15 15 16 14	13 13 e11 e11 e12	11 11 e11 11 11	e10 e9.8 9.2 9.2 9.1	8.6 8.6 8.7 8.6 8.8	20 23 23 23 27	29 27 26 25 25	107 97 90 84 83	56 53 46 44 43	25 24 24 26 23	33 33 31 18 27	38 37 18 15
26 27 28 29 30 31	13 15 15 13 11	12 13 e11 12 12	11 10 e11 e10 11	9.2 e9.5 9.2 9.1 9.0 9.1	8.4 9.2 8.9 8.6	29 28 24 24 22 25	24 27 32 35 34	81 81 88 92 78 69	43 43 40 39 58	22 22 20 20 19 18	30 30 31 29 27 26	13 13 12 12 17
TOTAL MEAN MAX MIN AC-FT	671 21.6 35 11 1,330	356 11.9 13 10 706	336.3 10.8 12 9.0 667	296.5 9.56 11 8.0 588	252.5 8.71 9.2 7.8 501	477.1 15.4 29 7.9 946	884 29.5 35 24 1,750	2,421 78.1 110 32 4,800	1,980 66.0 111 39 3,930	900 29.0 51 18 1,790	996 32.1 43 17 1,980	745 24.8 38 12 1,480
				OR WATER Y				, ,				
MEAN MAX (WY) MIN (WY)	29.1 53.3 (1987) 14.8 (2003)	21.3 43.3 (1985) 11.6 (2003)	17.0 31.0 (1985) 10.5 (2003)	14.8 24.4 (1985) 9.56 (2004)	14.1 21.1 (1998) 8.71 (2004)	15.8 24.4 (1997) 9.60 (1981)	31.0 53.8 (1985) 14.9 (1983)	137 512 (1984) 57.4 (1995)	350 939 (1984) 55.9 (2002)	159 872 (1995) 29.0 (2004)	56.9 145 (1995) 18.1 (2002)	38.0 83.7 (1986) 17.7 (1981)
SUMMAR	RY STATIST	ICS		FOR 2003 C	'ALENDAR	YEAR	FOR 200	)4 WATER Y	EAR	WATER	YEARS 1980	0 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			М	571 e7	May 7.6 Feb 9.1 Feb	7	11 13 20,44	28.2 11 Jur e7.8 Fet 8.5 Fet 37 Jur e2.12 Jur	7	1,9 b2,3 a89,9	7.4 De 8.5 Fe 350 Ju 5.10 Ju	1984 2002 n 8, 1985 cc 23, 2002 b 7, 2004 n 8, 1985 n 8, 1985

e Estimated.

Includes Twin Lakes Tunnel diversions.

b From rating curve extended above 910 ft<sup>3</sup>/s.

Maximum gage height, 2.37 ft, Feb 13, backwater from ice.

# ROARING FORK RIVER BASIN

# 09073400 ROARING FORK RIVER NEAR ASPEN, CO

LOCATION.--Lat 39°10'48", long 106°48'05", T. 10 S., R. 84 W., Pitkin County, Hydrologic Unit 14010004, on right bank 25 ft upstream from private bridge, 115 ft upstream from Salvation Ditch headgate, 1.0 mi southeast of Aspen, and 2.0 mi upstream from Hunter Creek.

DRAINAGE AREA.--108 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1964 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=09073400

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 8,014.01 ft above NGVD of 1929. Prior to Apr. 25, 1968, at site 85 ft upstream, at datum 1.16 ft

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversion 14 mi upstream through Twin Lakes Tunnel to Arkansas River Basin since May 24, 1935, (35,550 acre-ft diverted during current year, provided by Colorado Division of Water Resources).

					YEAR OC		ET PER SECO TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	39 45 55 49 47	21 22 25 23 21	24 23 e22 e22 e22	22 23 e21 e20 e14	e17 e17 e18 e18 e17	18 18 19 19	45 48 45 45 50	57 54 64 87 110	139 136 147 165 184	119 95 83 75 72	37 36 39 65 68	36 34 34 43 57
6 7 8 9 10	45 42 39 40 37	22 24 25 23 27	23 23 25 23 e22	e17 24 23 e21 e20	e16 e15 e19 e17 e16	18 19 20 21 22	51 54 55 64 57	150 173 186 196 199	219 240 239 224 207	75 67 63 59 56	69 67 63 59 56	55 52 47 41 39
11 12 13 14 15	43 41 38 34 37	25 22 27 27 26	e23 e19 e18 23 e21	e20 e19 e18 e19 e20	e18 e17 e15 e17 19	21 21 23 23 24	49 49 45 47 48	212 186 147 121 107	177 153 142 157 162	53 50 48 46 47	54 52 51 51 46	41 37 39 35 35
16 17 18 19 20	37 35 29 28 28	22 26 22 23 25	e17 22 23 22 23	22 e20 e17 e18 22	19 19 19 20 19	23 24 25 27 31	51 58 58 53 51	118 138 139 185 217	145 137 135 126 119	71 140 83 73 67	45 47 48 55 62	35 35 35 42 62
21 22 23 24 25	27 26 26 26 26 24	25 23 20 19 24	23 23 e20 e19 e21	e19 e16 e17 e18 e19	19 19 19 19	36 40 41 43 49	49 46 44 42 42	221 210 191 184 183	119 118 99 92 90	61 53 61 80 60	52 53 53 37 40	59 60 37 31 28
26 27 28 29 30 31	20 27 27 24 22 20	25 e22 e20 25 24	23 e21 e19 e18 e22 23	e17 e17 e19 e19 e18 e18	18 19 20 19	51 51 42 38 39 41	40 44 53 60 61	178 180 186 204 168 146	92 90 85 81 149	52 55 49 43 41 40	46 45 48 44 42 39	28 26 25 25 33
TOTAL MEAN MAX MIN AC-FT	1,057 34.1 55 20 2,100	705 23.5 27 19 1,400	672 21.7 25 17 1,330	597 19.3 24 14 1,180	523 18.0 20 15 1,040	906 29.2 51 18 1,800	1,504 50.1 64 40 2,980	4,897 158 221 54 9,710	4,368 146 240 81 8,660	2,037 65.7 140 40 4,040	1,569 50.6 69 36 3,110	1,186 39.5 62 25 2,350
MEAN MAX (WY) MIN (WY)	43.4 80.0 (1966) 23.5 (1978)	34.6 61.6 (1985) 20.7 (1978)	29.6 47.5 (1987) 18.6 (1977)	26.6 44.6 (1997) 17.0 (1977)	25.3 41.1 (1997) 15.4 (1977)	27.6 44.3 (1997) 16.6 (1977)	49.0 79.7 (1985) 26.2 (1973)	197 554 (1984) 97.0 (1983)	409 1,017 (1984) 77.8 (2002)	191 1,057 (1995) 46.5 (2002)	68.1 186 (1995) 25.7 (2002)	50.8 94.0 (1999) 23.8 (1977)
SUMMAI	RY STATIST	ICS		FOR 2003 CA	LENDAR `	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 196	5 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK FLOW MAXIMUM PEAK FLOW MORY MEAN MORY MEAN MORY MAXIMUM PEAK FLOW MORY MORY MORY MORY MORY MORY MORY MORY		И	25,561 70.0 916 May 30 e14 Feb 7 18 Feb 3		7	20,021 54.7  240 Jun 7 e14 Jan 5 17 Feb 7 296 Jun 8 2,20 Jun 8 39,710 141		n 5 o 7 n 8	1,9 b2,2 a108,0	12 No 15 Fe 230 Ji 5.97 Ji	1984 2002 ul 10, 1995 ov 28, 1976 eb 1, 1977 ul 11, 1995 ul 11, 1995	
50 PERCI	ENT EXCEEI ENT EXCEEI	OS		32 20			3	9		•	40 22	

e Estimated.

a Includes diversions through Twin Lakes Tunnel. b Also occurred Jun 9, 1985.

#### 09074000 HUNTER CREEK NEAR ASPEN, CO

LOCATION .-- Lat 39°12'21", long 106°47'49", Pitkin County, Hydrologic Unit 14010004, on right bank 280 ft upstream from headgate of Red Mountain Ditch, 1.5 mi upstream from mouth, and 1.5 mi northeast of Aspen.

DRAINAGE AREA.--41.1 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1950 to September 1956, September 1969 to current year. Statistical summary computed for 1980 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09074000

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,610 ft above NGVD of 1929, from topographic map. Prior to Sept. 1, 1969, at site 220 ft downstream, at different datum, Sept. 1, 1969 to July 10, 1991 at datum 1.0 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversion upstream from station to Charles H. Boustead Tunnel by feeder conduit. Several small diversions upstream from station for irrigation of hay meadows upstream and downstream from station.

					R YEAR OC		ET PER SECC 3 TO SEPTEM /ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	6.5 9.1 15 13	5.9 6.2 7.4 e5.0 e4.9	e4.8 e4.6 e4.4 e4.3 e4.2	e4.0 e3.9 e3.7 e3.6 e2.2	e3.0 e3.0 e3.1 e3.1 e3.0	e2.9 e3.0 e3.1 e3.2 e3.1	18 21 20 21 23	26 27 42 64 70	99 105 124 114 135	57 37 42 40 43	13 13 13 11 11	4.4 4.2 3.9 5.2 8.9
6 7 8 9 10	11 10 9.5 9.2 9.1	e4.8 e4.8 e4.8 e4.9 e5.5	e4.3 e4.2 e4.5 e4.3 e3.8	e2.8 e4.0 e4.0 e3.8 e3.7	e2.8 e2.4 e3.2 e2.9 e2.5	e3.1 e3.1 3.4 4.0 4.4	22 24 23 24 21	65 67 67 64 67	165 166 155 142 124	46 42 38 35 34	12 11 9.7 8.2 7.4	7.1 5.4 4.7 4.4 4.7
11 12 13 14 15	12 11 9.6 7.9 8.5	e5.4 e5.0 e5.2 e5.8 e5.4	e4.2 e3.4 e3.2 e4.7 e4.0	e3.6 e3.3 e3.2 e3.3 e3.6	e3.0 e2.7 e2.3 e2.6 e3.0	4.3 4.7 5.0 5.2 5.1	18 17 17 19	68 61 54 52 48	98 83 83 86 84	32 30 29 29 35	6.7 6.1 5.9 5.8 5.7	6.5 5.2 5.4 5.1 4.2
16 17 18 19 20	8.9 8.0 7.4 7.1 6.9	e5.2 e5.3 e4.9 e4.8 e5.1	e2.9 e3.0 e3.8 e3.8 e3.9	e4.0 e3.8 e3.1 e3.2 e3.8	e3.0 e2.9 e3.2 e3.2 e3.2	4.7 4.8 5.2 6.7 8.8	22 26 26 23 22	51 55 56 62 75	75 61 40 36 36	30 32 28 27 29	5.8 6.3 8.1 12 16	3.7 3.5 3.4 4.7
21 22 23 24 25	6.7 6.7 6.5 6.2 5.4	e5.1 e4.8 e3.4 e3.5 e4.9	e4.4 e4.5 e3.7 e3.6 e4.2	e3.3 e2.8 e3.0 e3.3 e3.4	e3.2 e3.2 e3.1 e3.1	11 14 15 17 19	21 19 18 17 17	83 78 66 65 61	36 37 34 33 35	25 22 21 25 22	10 9.1 8.6 7.5 7.1	9.7 10 8.2 7.9 7.1
26 27 28 29 30 31	3.7 7.0 6.8 6.1 6.6 6.0	e4.8 e4.2 e3.5 e4.9 e4.9	e4.3 e4.0 e3.6 e3.4 e4.0 e4.1	e3.0 e2.9 e3.4 e3.3 e3.2 e3.1	e3.0 e3.1 e3.1 e3.0	20 20 18 18 14 15	16 23 31 34 31	62 59 63 63 62 62	35 36 34 46 106	19 18 18 16 15	6.3 5.8 6.2 5.5 5.1 4.3	6.7 6.2 5.9 5.8 12
TOTAL MEAN MAX MIN AC-FT	260.4 8.40 15 3.7 517	150.3 5.01 7.4 3.4 298	124.1 4.00 4.8 2.9 246	105.3 3.40 4.0 2.2 209	86.0 2.97 3.2 2.3 171	268.8 8.67 20 2.9 533	653 21.8 34 16 1,300	1,865 60.2 83 26 3,700	2,443 81.4 166 33 4,850	930 30.0 57 14 1,840	263.2 8.49 16 4.3 522	185.1 6.17 12 3.4 367
MEAN MAX (WY) MIN (WY)	15.7 32.7 (1985) 5.35 (1990)	10.2 25.1 (1985) 3.32 (1990)	6.73 14.4 (1985) 2.33 (1981)	5.69 11.3 (1987) 2.74 (1981)	5.26 9.21 (1985) 2.89 (1990)	6.52 11.3 (1997) 3.66 (1990)	20.1 40.8 (1989) 7.68 (1983)	120 287 (1996) 44.8 (1995)	188 462 (1996) 36.3 (2002)	71.6 271 (1995) 11.1 (2002)	29.8 74.4 (1995) 4.90 (2002)	18.5 42.1 (1999) 6.17 (2004)
SUMMAR	Y STATIST	ICS		FOR 2003 C	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 19	80 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMUMAXIMUMANIMUL 10 PERCE 50 PERCE	MEAN ANNUAL M ANNUAL M DAILY ME DAILY ME	IEAN AN AN Y MINIMUN OW AGE AC-FT) OS OS	4		.5 May .9 Dec .6 Dec	16	16 e e 24 14,55	20.0 66 Jur 52.2 Jar 52.7 Feb 14 Jur 2.17 Jur	7 1 5 2 9 1 6 1 6	b1,3	e1.8 D 1.9 D 170 J c2.33 J	1996 2002 un 6, 1988 Dec 20, 1980 Dec 20, 1980 un 8, 1985 un 8, 1985

a Average discharge for 16 years (water years 1951-1956, 1970-1979), 50.7 ft<sup>3</sup>/s; 36,730 acre-ft/yr, prior to diversion through Charles H. Boustead Tunnel. From rating curve extended above 300 ft<sup>3</sup>/s.

c Maximum gage height for period of record, 4.30 ft, Nov 30, 1984, backwater from ice.

#### 09080190 RUEDI RESERVOIR NEAR BASALT, CO

 $LOCATION.--Lat\ 39^\circ 21'50", long\ 106^\circ 49'05", in\ NW^1/_4\ sec. 18,\ T.8\ S.,\ R.84\ W., Pitkin\ County,\ Hydrologic\ Unit\ 14010004, in\ gatehouse\ of\ Ruedi\ Dam\ just\ upstream\ from\ Rocky\ Fork\ Creek,\ and\ 13\ mi\ east\ of\ Basalt.$ 

DRAINAGE AREA.--223 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1968 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09080190

GAGE.--Water-stage recorder. Datum of gage is 7766.00 ft above NGVD of 1929, (levels by U.S. Bureau of Reclamation); gage readings have been reduced to elevations above NGVD of 1929.

REMARKS.--Reservoir is formed by an earthfill dam. Storage began in May 1968; dam completed July 16, 1968. Capacity, 102,300 acre-ft, 1969 survey, between elevations 7,540.00 ft, sill of auxiliary outlet and 7,766.00 ft, crest of spillway. Dead storage below elevation 7,540.00 ft, 61 acre-ft. Figures given are total contents.

COOPERATION .-- Records provided by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 104,000 acre-ft, June 11, 12, 2000, elevation, 7,767.62 ft; minimum after first filling, 32,430 acre-ft, Apr. 24, 1996, elevation, 7,670.17 ft.

EXTREMES (AT 2400) FOR CURRENT YEAR.--Maximum contents, 93,700 acre-ft, Aug. 3, elevation, 7,757.05 ft; minimum contents, 61,000 acre-ft, Mar. 20, elevation, 7,717.44 ft.

#### MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	7.745.94	83.610	-
Oct. 31	7,735.04	74,410	-9,200
Nov. 30	7,733.34	73,040	-1,370
Dec. 31	7,729.48	69,980	-3,060
CAL YR 2003	-	-	22,530
Jan. 31	7,725.42	66,870	-3,110
Feb. 29	7,720.11	62,930	-3,940
Mar. 31	7,718.27	61,600	-1,330
Apr. 30	7,724.87	66,450	4,850
May 31	7,738.69	77,420	10,970
June 30	7,754.30	91,130	13,710
July 31	7,756.99	93,640	2,510
Aug. 31	7,749.86	87,090	-6,550
Sept. 30	7,741.90	80,120	-6,970
WTR YR 2004	-	-	-3,490

TOTAL

MEAN

AC-FT

MEAN

MAX

MIN

6,277

MAXIMUM PEAK STAGE

10 PERCENT EXCEEDS

50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

ANNUAL RUNOFF (AC-FT)

12,450

2,601

86.7

5,160

#### 09080400 FRYINGPAN RIVER NEAR RUEDI, CO

LOCATION.--Lat 39°21′56", long 106°49′30", in SE½SE½ sec.12, T.8 S., R.85 W., Pitkin County, Hydrologic Unit 14010004, on right bank 0.4 mi downstream from Rocky Fork Creek and Ruedi Dam, 1.5 mi west of former site of Ruedi, and 12.5 mi east of Basalt.

DRAINAGE AREA.--238 mi<sup>2</sup>

PERIOD OF RECORD.--October 1964 to current year. Statistical summary computed for 1969 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09080400

GAGE.--Water-stage recorder with satellite telemetry and concrete control. Datum of gage is 7,473.25 ft above NGVD of 1929, (levels by U.S. Bureau of Reclamation). Prior to Nov. 7, 1970, at site 2.0 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Diversions for irrigation of hay meadows upstream from station. Transmountain diversions upstream from station to Arkansas River Basin through Busk-Ivanhoe Tunnel since June 1925 and Charles H. Boustead Tunnel since May 16, 1972 (see elsewhere in this report). Flow regulated by Ruedi Reservoir (station 09080190) since May 18, 1968.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

#### DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP 7 24 ---

MAX (WY)	366 (1970)	185 (1985)	224 (1996)	228 (1996)	250 (1996)	280 (1996)	370 (1971)	669 (1970)	950 (1984)	812 (1995)	293 (2000)	262 (2001)
MIN	54.8	42.4	38.2	36.8	36.3	33.6	39.1	116	113	95.9	57.1	49.1
(WY)	(1978)	(2003)	(1969)	(1969)	(1969)	(1977)	(1969)	(1990)	(2003)	(1977)	(1977)	(1977)
SUMMAR	RY STATIST	ICS		FOR 2003 CA	ALENDAR `	YEAR	FOR 200	04 WATER	YEAR	WATER	YEARS 19	69 - 2004
ANNUAL	TOTAL			40,912			42,43	39				
ANNUAL	MEAN			112			11	16		a1	78	
HIGHEST	ANNUAL M	1EAN									88	1984
LOWEST	ANNUAL M	IEAN									83.9	1977
HIGHEST	DAILY ME	AN		329	Jul	27	27	70 O	ct 10	1,3	90 J	un 25, 1983
LOWEST	DAILY MEA	AN		40	Jan				pr 14			lov 14, 1995
ANNUAL	SEVEN-DA	Y MINIMUM	1	40	Jan	26	4	48 Aj	pr 14		29 N	Iar 5, 1981
MAXIMU	IM PEAK FL	OW					27	74 O	ct 9	c1,4	00 5	Sep 16, 1976

84.8

1,704

3,380

56.8

2,629

5,210

7,430

Oct 9

2.11

84,180

3,745

3,486

6,910

7,830

3,947

d3.50

128,800

5.367

10,650

4 928

9,770

Sep 16, 1976

a Subsequent to completion of Ruedi Reservoir.

81,150

85.7

2,657

5,270

85.1

2,461

84.9

4,880

2,637

5.230

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2004, BY WATER YEAR (WY)

b Minimum daily discharge for period of record, 16 ft<sup>3</sup>/s, Feb 2, 1968 (result of storage in Ruedi Reservoir); minimum daily discharge prior to construction of Ruedi Reservoir, 28 ft<sup>3</sup>/s, Mar 4, 1966.

c Maximum discharge and stage for period of record, 2,690 ft<sup>3</sup>/s, Jun 18, 1965, gage height 5.16 ft, site and datum then in use.

d Maximum gage height for statistical period, 3.89 ft, Jun 24, 1983.

# 09081000 ROARING FORK RIVER NEAR EMMA, CO

 $LOCATION.--Lat~39^\circ 22^\circ 24^\circ, long~107^\circ 05^\circ 00^\circ, in~SW^{1}{}_{4}NW^{1}{}_{4}~sec. 11,~T.8~S.,~R.87~W., Eagle~County,~Hydrologic~Unit~14010004,~on~left~bank~10~ft~upstream~from~bridge~on~Hooks~Lane,~1.2~mi~downstream~from~Sopris~Creek,~and~1.2~mi~northwest~of~Emma.$ 

DRAINAGE AREA.--853 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--August 1908 to September 1909 (monthly discharge only, published in WSP 1313), March 1998 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/? site\_no=09081000

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 6,470 ft above NGVD of 1929, from topographic map. Prior to Mar. 1998, nonrecording gage at different datum.

REMARKS.--No estimated daily discharges. Records good. Diversions for irrigation of about 16,000 acres above station. Transmountain diversions to Arkansas River Basin through Busk-Ivanhoe Tunnel since 1925 and through Twin Lakes Tunnel since 1935. Transmountain diversion from headwaters of Fryingpan River through Charles H. Boustead Tunnel to Arkansas River Basin began May 16, 1972. Natural flow of stream affected by storage in Ruedi Reservoir on Fryingpan River (station 09080190) since May 1968.

					YEAR OC		ET PER SECO TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	342	268	262	236	228	215	287	330	671	909	325	304
2	360	274	254	234	227	208	301	352	653	785	316	299
3	376	292	245	241	228	215	306	370	732	751	322	298
4	368	278	242	221	232	215	309	417	849	710	353	319
5	364	264	241	182	229	217	360	453	1,030	685	358	336
6	363	260	245	204	225	211	359	533	1,360	682	360	330
7	376	266	245	291	210	212	326	612	1,580	672	355	326
8	378	266	253	261	244	215	323	675	1,640	633	341	316
9	390	264	240	245	221	222	373	730	1,620	608	331	321
10	391	275	222	244	218	229	386	741	1,540	597	327	313
11	394	276	237	242	254	228	342	778	1,230	587	351	320
12	395	269	230	234	218	226	341	744	1,030	606	338	315
13	393	275	220	219	209	231	321	649	928	527	334	314
14	396	290	244	225	238	230	318	567	1,030	559	334	303
15	396	285	244	252	261	234	321	519	1,170	609	331	303
16	392	276	202	253	230	227	327	515	1,090	615	327	300
17	359	284	205	238	225	225	343	546	1,040	781	324	299
18	354	274	239	232	227	232	351	545	980	615	328	297
19	356	267	227	233	228	239	340	635	952	564	353	304
20	358	273	230	245	223	252	334	798	995	530	355	355
21	357	277	258	230	216	264	309	844	981	496	348	414
22	327	277	245	244	215	272	295	862	873	449	351	373
23	325	229	224	227	213	283	279	778	785	439	348	297
24	320	219	227	242	213	307	267	737	791	469	310	277
25	284	267	237	246	216	325	273	743	803	430	298	268
26 27 28 29 30 31	279 279 249 258 260 267	270 254 234 264 266	240 231 214 199 241 242	222 209 254 240 234 231	213 217 223 218	319 324 303 273 276 276	255 254 275 295 312	714 726 748 929 808 683	811 771 744 750 1,040	401 404 388 357 343 333	292 294 320 322 318 312	262 257 266 336 383
TOTAL	10,706	8,033	7,285	7,311	6,519	7,705	9,482	20,081	30,469	17,534	10,276	9,405
MEAN	345	268	235	236	225	249	316	648	1,016	566	331	314
MAX	396	292	262	291	261	325	386	929	1,640	909	360	414
MIN	249	219	199	182	209	208	254	330	653	333	292	257
AC-FT	21,240	15,930	14,450	14,500	12,930	15,280	18,810	39,830	60,440	34,780	20,380	18,650
STATISTI	CS OF MON			R WATER YE	EARS 1998 -		ATER YEAR	R (WY)				
MEAN	375	280	247	237	217	223	338	881	1,379	755	481	405
MAX	555	318	283	270	245	260	551	1,177	2,476	1,495	741	547
(WY)	(2000)	(2000)	(2002)	(2002)	(2000)	(1999)	(1998)	(1998)	(1999)	(1999)	(1999)	(1999)
MIN	246	218	185	172	159	173	235	399	519	307	298	292
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)	(2002)	(2002)	(2002)	(2002)
SUMMAR	Y STATIST	ICS		FOR 2003 CA	LENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 199	98 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW			Л	3,860 e115 142	Jun Feb Feb	1 7 4	144,80 39 1,64 18 21 1,95	96 40 Jur 32 Jar 13 Mai 50 Jur	n 8	3,5 e 8,6	115 F 142 F 070 Jr	1999 2002 un 1, 2003 eb 7, 2003 eb 4, 2003 un 19, 1909
ANNUAL 10 PERCE 50 PERCE	M PEAK ST RUNOFF (A NT EXCEEI NT EXCEEI NT EXCEEI	AC-FT) OS OS		318,300 913 279 164			287,20 75 30 22	00 50 05	n 8	338,2		un 19, 1909

e Estimated.

a Datum then in use.

# 09081600 CRYSTAL RIVER ABOVE AVALANCHE CREEK, NEAR REDSTONE, CO

LOCATION.--Lat 39°13′56″, long 107°13′36″, in SE½SW½ sec.33, T.9 S., R.88 W., Pitkin County, Hydrologic Unit 14010004, on right bank 1.2 mi upstream from Avalanche Creek, and 3.6 mi north of Redstone.

DRAINAGE AREA.--167 mi<sup>2</sup>.

 $PERIOD\ OF\ RECORD. --October\ 1955\ to\ current\ year.\ For\ a\ complete\ listing\ of\ historical\ data\ available\ for\ this\ site,\ see\ http://waterdata.usgs.gov/co/nwis/inventory/\\ ?site\_no=09081600$ 

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,905 ft above NGVD of 1929, from river-profile map.

REMARKS.--No estimated daily discharges. Records good. A few small diversions for irrigation upstream from station.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES											
PR MAY JUN JUL AUG SEP											
74     235     569     549     142     64       88     243     590     508     136     62       91     304     729     477     132     61       85     406     891     440     129     93       219     521     996     413     127     109											
120     655     1,130     397     131     87       121     740     1,310     388     126     83       149     783     1,420     361     120     79       173     811     1,370     357     114     75       165     843     1,190     344     110     78											
830     857     967     336     106     79       815     760     813     309     102     74       801     623     796     307     100     75       810     518     951     310     96     73       806     457     1,030     324     93     71											
211     464     1,000     318     93     69       235     542     949     377     92     68       232     651     894     297     93     66       207     843     855     276     92     97       93     1,000     869     262     93     284											
87     992     811     238     89     279       79     915     662     221     93     206       72     802     613     211     92     166       57     803     628     221     84     162       57     806     643     193     80     147											
56     821     626     180     76     136       89     847     554     186     76     129       129     892     523     174     78     124       124     965     524     163     71     125       154     780     614     154     68     132       154     637      146     66											
49     21,516     25,517     9,437     3,100     3,353       408     694     851     304     100     112       473     1,000     1,420     549     142     284       56     235     523     146     66     61       90     42,680     50,610     18,720     6,150     6,650											
93 761 1,247 604 195 124 64 1,223 2,019 1,872 640 253 962) (1984) (1957) (1957) (1995) (1986) 83.4 288 375 96.9 58.0 59.8 964) (1977) (1977) (1977) (2002) (1956)											
OR 2004 WATER YEAR WATER YEARS 1956 - 2004											
80,455 220 293 468 1957 107 1,420 Jun 8 3,500 Jun 25, 1983 28 Jan 5 21 Jan 3, 2002 35 Feb 9 27 Feb 11, 1964 1,640 Jun 8 4,180 Jun 25, 1983 3,97 Jun 8 6,12 Jun 25, 1983 159,600 732 934 79 93 41 43											

# ROARING FORK RIVER BASIN

# 09083800 CRYSTAL RIVER BELOW CARBONDALE, CO

 $LOCATION.--Lat~39^{\circ}24'29", long~107^{\circ}13'47", in~NE^{1}_{4}NW^{1}_{/4}~sec. 33, T.7~S., R.88~W., Garfield~County, Hydrologic~Unit~14010004, on left bank at downstream side of bridge on County Road~108, 1.0 mi upstream from mouth, and 1.0 mi northwest of Carbondale.$ 

DRAINAGE AREA.--350 mi<sup>2</sup>.

PERIOD OF RECORD.--May 2000 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=09083800

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 6,120 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 4,000 acres upstream and downstream from station.

G SEP 7 49 6 49 4 53 7 59
5 49 4 53 7 59
5 74
58 56 3 57
60 60 60 59
63 5 58 4 65
7 218 5 181 3 169
9 118 2 111 1 113 1 118
3.9 97.3 5 272 9 49
0.7 74.3 2 97.3 01) (2004) 3.9 41.8 12) (2002)
S 2000 - 2004
2003 2002 May 30, 2000 Aug 19, 2002 Sep 1, 2002 May 30, 2000 May 30, 2000
900

e Estimated. a Maximum gage height, 4.56 ft, May 29, 2003.

#### 09085000 ROARING FORK RIVER AT GLENWOOD SPRINGS, CO

LOCATION.--Lat 39°32'37", long 107°19'44", in SW1/4SE1/4 sec.9, T.6 S., R.89 W., Garfield County, Hydrologic Unit 14010004, on left bank at Glenwood Springs, 2,100 ft upstream from mouth.

DRAINAGE AREA.--1,451 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1905 to September 1909, September 1910 to current year. Monthly discharge only for some periods, published in WSP 1313. Prior to October 1960, published as Roaring Fork at Glenwood Springs. Statistical summary computed for 1972 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09085000

REVISED RECORDS.--WSP 2124: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 5,720.73 ft above NGVD of 1929. Prior to Nov. 20, 1915, nonrecording gage on highway bridge 800 ft downstream, at different datum. Nov. 20, 1915 to Oct. 26, 1917, nonrecording gage at present site and datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 35,000 acres. Transmountain diversions to Arkansas River Basin through Busk-Ivanhoe Tunnel since 1925, Twin Lakes Tunnel since 1935, and Charles H. Boustead Tunnel since 1972. Natural flow of stream affected by storage in Ruedi Reservoir on Fryingpan River (station 09080190) since May 1968.

# DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

1 580 512 503 432 364 344 580 736 1.440 1.760 582	498
2 603 531 492 431 356 333 612 740 1,410 1,550 562	493
3 632 566 478 440 360 354 632 814 1,600 1,460 559	497
4 621 546 467 e446 372 349 624 1,000 1,980 1,370 571 5 611 539 464 e415 361 350 757 1,230 2,320 1,300 560	526 580
6 602 543 474 e427 348 343 753 1,520 2,920 1,270 582 7 610 568 472 e451 339 342 715 1,740 3,420 1,240 577	560 541
8 613 564 484 e443 369 352 733 1,900 3,550 1,180 556	527
9 629 559 475 421 355 368 800 1,950 3,470 1,130 550 10 640 575 424 417 336 390 873 1,960 3,180 1,080 536	535 543
11 654 578 453 e416 e358 400 768 2,040 2,560 1,040 546	553
12 662 559 432 e400 356 400 740 1,860 2,120 1,030 536	540
13 657 557 414 e394 324 414 697 1,550 1,930 951 524 14 652 579 457 e400 351 417 700 1,290 2,200 979 518	533 522
15 661 567 473 e405 368 419 685 1,120 2,520 1,060 519	514
16 670 548 e421 413 365 411 663 1,090 2,440 1,130 516	515
17 633 547 e433 394 352 404 694 1,180 2,380 1,310 516 18 623 537 e447 376 356 413 714 1,320 2,230 1,120 532	511 503
19 620 512 e446 375 361 429 673 1,700 2,150 991 557	524
20 617 520 434 398 358 475 635 2,260 2,220 946 558	718
21 618 527 457 373 350 528 621 2,320 2,130 885 558 22 586 528 459 e368 348 574 617 2,230 1,860 797 561	909 804
23 576 487 421 e374 344 596 587 1,920 1,610 746 563	655
24 575 437 420 e379 345 638 560 1,850 1,630 771 527 25 548 493 461 383 346 691 574 1,830 1,660 740 505	602 573
26 532 523 447 e375 349 696 555 1,810 1,670 691 491 27 524 491 430 e375 357 690 556 1,850 1,550 670 492	551 521
28 504 467 e432 e380 368 632 617 1,930 1,470 665 520	511
29 501 523 e427 387 358 563 681 2,340 1,480 627 528 30 500 508 e440 377 548 738 1,980 1,860 608 519	578 626
31 509 437 374 545 1,620 597 511	
TOTAL 18,563 15,991 13,974 12,439 10,274 14,408 20,154 50,680 64,960 31,694 16,732	17,063
MEAN 599 533 451 401 354 465 672 1,635 2,165 1,022 540 MAX 670 579 503 451 372 696 873 2,340 3,550 1,760 582	569 909
MIN 500 437 414 368 324 333 555 736 1,410 597 491	493
AC-FT 36,820 31,720 27,720 24,670 20,380 28,580 39,980 100,500 128,800 62,870 33,190	33,840
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2004, BY WATER YEAR (WY)	
MEAN 725 654 556 491 463 521 803 2,194 3,898 2,258 965 MAX 1,159 969 790 677 689 861 1,602 4,663 7,383 7,483 2,676	734 1,160
MAA 1,137 707 770 077 087 081 1,002 4,003 7,363 7,463 2,070 (WY) (1985) (1985) (1985) (1985) (1986) (1986) (1986) (1985) (1984) (1984) (1984) (1995)	(1995)
MIN 384 411 348 305 266 293 352 593 1,100 422 316	363
(WY) (1978) (1978) (2003) (2003) (2003) (2003) (1977) (1977) (2002) (1977) (1977)	(1977)
SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 19	972 - 2004
ANNUAL TOTAL 320,754 286,932	
ANNUAL MEAN 879 784 a1,190 HIGHEST ANNUAL MEAN 2,092	1984
LOWEST ANNUAL MEAN 485	1977
HIGHEST DAILY MEAN         6,950         Jun 1         3,550         Jun 8         b11,800           LOWEST DAILY MEAN         e180         Feb 7         324         Feb 13         c,d180	Jul 12, 1995 Feb 7, 2003
ANNUAL SEVEN-DAY MINIMUM 234 Feb 4 345 Mar 1 234	Feb 4, 2003
MAXIMUM PEAK FLOW         4,080         Jun 8         f13,000           MAXIMUM PEAK STAGE         5.13         Jun 8         g8.31	Jul 13, 1995 Jul 13, 1995
ANNUAL RUNOFF (AC-FT) 636,200 569,100 862,300	Jui 13, 1993
10 PERCENT EXCEEDS 2,140 1,780 2,830	
50 PERCENT EXCEEDS       578       557       664         90 PERCENT EXCEEDS       283       368       417	

e Estimated.

Average discharge for 65 years (water years 1906-09, 1911-71), 1368 ft<sup>3</sup>/s; 991,100 acre-ft/yr, prior to diversion through Charles H. Boustead Tunnel.

Maximum daily discharge for period of record, 16,600 ft<sup>3</sup>/s, Jun 30, 1957.

Minimum daily discharge for period of record, 179 ft<sup>3</sup>/s, Jan 21, 1935; minimum discharge during the day of Jan 21, 1935, 145 ft<sup>3</sup>/s, gage height, 0.65 ft.

Also occurred Aug 12, 1977.

Maximum discharge for period of record, 19,000 ft<sup>3</sup>/s, Jul 1, 1957, gage height, 8.65 ft.

Maximum gage height for period of record, 8.7 ft, Jun 14, 1921, from floodmarks.

# 09085100 COLORADO RIVER BELOW GLENWOOD SPRINGS, CO

 $LOCATION. -- Lat\ 39^{\circ}33'18'', long\ 107^{\circ}20'13'', in\ NW^{1}_{4}NW^{1}_{4}\ sec. 9,\ T.6\ S.,\ R.89\ W.,\ Garfield\ County,\ Hydrologic\ Unit\ 14010005,\ on\ left\ bank\ 0.6\ mi\ downstream\ from\ Roaring\ Fork\ River\ and\ 1.0\ mi\ northwest\ of\ Post\ Office\ in\ Glenwood\ Springs.$ 

DRAINAGE AREA.--6,013 mi<sup>2</sup>.

 $PERIOD\ OF\ RECORD. -- October\ 1966\ to\ current\ year.\ For\ a\ complete\ listing\ of\ historical\ data\ available\ for\ this\ site,\ see\ http://waterdata.usgs.gov/co/nwis/inventory/\\ ?site\_no=09085100$ 

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 5,700.75 ft above NGVD of 1929, Colorado State Highway Department benchmark.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by transmountain diversions, storage reservoirs, power development, and diversions for irrigation of 110,000 acres.

diversi	ons for infiga-	11011 01 110,0	oo acres.	Di	SCHARGE	CUBIC FEI	ET PER SECC	)ND				
					YEAR OCT		TO SEPTEM					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	2,130 2,150 2,220 2,250 2,260	1,750 1,560 1,640 1,580 1,580	1,500 1,440 1,380 1,310 1,290	1,260 1,300 1,310 1,180 942	1,120 1,090 1,120 1,170 1,150	1,080 1,090 1,140 1,190 1,130	1,560 1,660 1,730 1,720 1,870	1,840 1,780 1,900 2,230 2,800	3,580 3,330 3,550 4,080 4,680	3,520 3,170 2,960 2,760 2,540	1,830 1,800 1,810 1,810 1,830	1,780 1,760 1,770 1,870 1,960
6 7 8 9 10	2,240 2,230 2,220 2,230 2,230	1,560 1,460 1,420 1,400 1,420	1,350 1,330 1,340 1,310 1,180	852 1,100 1,380 1,340 1,240	1,100 1,050 1,110 1,120 1,080	1,080 1,100 1,100 1,190 1,230	1,940 1,890 1,930 2,040 2,200	3,540 4,210 4,750 4,960 4,990	5,520 6,230 6,580 6,380 5,940	2,440 2,330 2,250 2,190 2,090	1,870 1,880 1,850 1,810 1,790	1,960 1,950 1,930 1,890 1,850
11 12 13 14 15	2,260 2,320 2,290 2,240 2,230	1,450 1,410 1,400 1,430 1,410	1,190 1,210 1,220 1,310 1,420	1,180 978 949 964 1,080	1,090 1,060 942 946 1,080	1,210 1,240 1,230 1,270 1,280	1,990 1,880 1,810 1,780 1,780	5,250 4,970 4,280 3,640 3,120	5,130 4,340 3,930 4,150 4,570	2,040 2,020 1,950 1,940 2,080	1,850 1,800 1,790 1,790 1,810	1,870 1,810 1,800 1,800 1,800
16 17 18 19 20	2,230 2,200 2,180 2,170 2,170	1,380 1,390 1,360 1,370 1,390	1,130 1,010 1,130 1,150 1,200	1,220 1,230 1,150 1,100 1,200	1,110 1,130 1,160 1,160 1,120	1,250 1,180 1,210 1,260 1,390	1,770 1,800 1,870 1,850 1,760	2,990 3,030 3,240 3,900 4,970	4,500 4,300 4,140 4,020 4,070	2,330 2,650 2,520 2,520 2,410	1,800 1,800 1,830 1,930 2,150	1,780 1,800 1,760 1,760 2,000
21 22 23 24 25	2,180 2,130 2,090 2,070 2,030	1,430 1,430 1,310 1,020 1,260	1,280 1,400 1,270 1,110 1,080	1,180 1,070 1,010 1,060 1,110	1,090 1,120 1,090 1,110 1,130	1,540 1,660 1,730 1,830 1,930	1,710 1,700 1,630 1,550 1,560	5,330 5,260 4,710 4,450 4,290	3,990 3,790 3,240 3,080 3,120	2,300 2,210 2,070 2,130 2,180	2,170 2,080 1,970 1,890 1,830	2,350 2,250 1,880 1,820 1,680
26 27 28 29 30 31	1,990 2,060 1,870 1,870 1,860 1,840	1,440 1,420 1,250 1,260 1,420	1,220 1,190 1,050 1,000 1,140 1,260	1,000 974 1,070 1,160 1,170 1,180	1,110 1,160 1,170 1,130	2,030 2,030 1,880 1,680 1,650 1,530	1,540 1,500 1,590 1,740 1,850	4,160 4,200 4,310 4,970 4,690 3,980	3,120 2,970 2,870 2,790 3,320	2,040 2,050 2,040 1,920 1,890 1,880	1,760 1,770 1,800 1,800 1,780 1,760	1,600 1,500 1,550 1,650 1,870
TOTAL MEAN MAX MIN AC-FT	66,440 2,143 2,320 1,840 131,800	42,600 1,420 1,750 1,020 84,500	38,400 1,239 1,500 1,000 76,170	34,939 1,127 1,380 852 69,300	32,018 1,104 1,170 942 63,510	43,340 1,398 2,030 1,080 85,960	53,200 1,773 2,200 1,500 105,500	122,740 3,959 5,330 1,780 243,500	125,310 4,177 6,580 2,790 248,600	71,420 2,304 3,520 1,880 141,700	57,440 1,853 2,170 1,760 113,900	55,050 1,835 2,350 1,500 109,200
STATIST MEAN	ICS OF MON 2,110	THLY MEA 1,862	.N DATA FO 1,566	R WATER YE 1,474	EARS 1967 - 1,456	- 2004, BY W 1,678	VATER YEAR 2.643	8 (WY) 6,790	9,885	5,363	2,822	2,255
MAX (WY) MIN (WY)	3,082 (1985) 1,257 (2003)	2,703 (1985) 1,186 (1978)	2,487 (1985) 976 (2003)	2,192 (1985) 926 (2003)	2,209 (1986) 940 (2003)	2,814 (1986) 1,018 (1977)	5,113 (1996) 1,548 (2003)	15,570 (1984) 2,146 (1977)	20,710 (1984) 2,364 (2002)	15,180 (1995) 1,594 (2002)	5,975 (1984) 1,464 (2002)	3,716 (1984) 1,255 (2002)
SUMMAI	RY STATIST	ICS		FOR 2003 CA	ALENDAR Y	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 1967	7 - 2004
LOWEST		IEAN		886,359 2,428 17,100	Jun	2	742,89 2,03	0	ı 8	6,2	330 276 523 200 Mar	1984 2002 y 25, 1984
LOWEST ANNUAL MAXIMU MAXIMU	DAILY MEA SEVEN-DA JM PEAK FL JM PEAK ST	AN Y MINIMUN OW AGE	М	684 820 1,758,000	Feb Feb	8	85 1,04 6,92	2 Jan 0 Jan 0 Jun 6.35 Jun	6 1 22 1 8 1 8	É	584 Fe 320 Fe 500 Ma 12.49 Ma	b 8, 2003 b 4, 2003 y 25, 1984 y 25, 1984
10 PERCE 50 PERCE	MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			5,360 1,890 948			3,94 1,80 1,11	0		7,4 2,0	160 160 160 170	

274 DIVIDE CREEK BASIN

#### 09089500 WEST DIVIDE CREEK NEAR RAVEN, CO

 $LOCATION. --Lat\ 39^{\circ}19'52", long\ 107^{\circ}34'46", in\ NE^{1}{}_{4}Sw^{1}{}_{4}\ sec.\ 29,\ T.8\ S.,\ R.91\ W.,\ Mesa\ County,\ Hydrologic\ Unit\ 140\ 10005,\ on\ left\ bank\ 10\ ft\ downstream\ from\ private\ road\ bridge,\ 0.8\ mi\ upstream\ from\ Brook\ Creek,\ 8\ mi\ south\ of\ Raven,\ and\ 16\ mi\ south\ of\ Silt.$ 

DRAINAGE AREA.--64.6 mi<sup>2</sup>.

PERIOD OF RECORD.—October 1955 to September 1999. October 1999 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09089500

REVISED RECORDS .-- WSP 2124: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,050 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharge, which is fair. Natural flow of stream affected by water imported from Thompson Creek (Roaring Fork Basin), Muddy Creek (Muddy Creek Basin), and Buzzard Creek (Plateau Creek Basin).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,410 ft<sup>3</sup>/s, May 14, 1984, from rating curve extended above 670 ft<sup>3</sup>/s, gage height, 5.83 ft; no flow at times in most years.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 162 ft<sup>3</sup>/s, May 7, gage height, 3.84 ft; minimum daily, no flow several days.

#### DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.31						19	63	66	22	0.51	0.00
2	0.40						23	65	67	17	0.44	0.00
3	0.69						24	80	72	14	0.41	0.00
4	0.77						23	91	91	14	0.32	0.00
5	0.68						34	111	88	12	0.33	0.00
6	0.69						35	121	96	10	0.43	0.00
7	0.69						38	136	104	8.7	0.33	0.00
8	0.63						38	142	98	7.5	0.32	0.00
9	0.56						45	135	88	5.9	0.22	0.00
10	0.51						44	134	78	5.0	0.11	0.00
11	0.62						37	146	69	4.0	0.05	0.00
12	0.68						36	133	61	2.1	0.04	0.00
13	0.59						36	111	55	1.5	0.03	0.00
14	0.49						41	89	54	1.3	0.03	0.00
15	0.45						43	79	54	1.1	0.02	0.00
16	0.44						44	78	54	1.1	0.02	0.00
17	0.44						49	83	52	1.5	0.01	0.00
18	0.44						53	101	50	1.6	0.01	0.00
19	0.40						42	126	47	1.7	0.00	0.00
20	0.39						39	132	42	1.4	0.00	1.0
21	0.40						38	124	38	1.2	0.12	7.1
22	0.39						37	117	35	1.5	0.07	4.5
23	0.40						36	98	29	1.1	0.04	2.8
24	0.40						34	97	26	1.1	0.03	2.6
25	0.38						36	84	24	1.1	0.02	2.4
26	0.34						37	88	25	0.84	0.02	1.9
27	0.34						44	94	25	0.95	0.01	1.7
28	0.42						66	93	23	1.5	0.00	1.5
29	0.49						79	111	19	1.1	0.00	1.5
30	0.46						77	94	21	0.86	0.00	1.6
31	e0.43							73		0.66	0.00	
TOTAL	15.32						1,227	3,229	1,651	145.31	3.94	28.60
MEAN	0.49						40.9	104	55.0	4.69	0.13	0.95
MAX	0.77						79	146	104	22	0.51	7.1
MIN	0.31						19	63	19	0.66	0.00	0.00
AC-FT	30						2,430	6,400	3,270	288	7.8	57

e Estimated.

# ROAN CREEK BASIN 275

# 09095300 DRY FORK AT UPPER STATION, NEAR DE BEQUE, CO

 $LOCATION.--Lat\ 39^{\circ}22'29",\ long\ 108^{\circ}19'02",\ in\ SE\frac{1}{4}NW\frac{1}{4}\ sec.10,T.8\ S.,\ R.98\ W.,\ Garfield\ County,\ Hydrologic\ Unit\ 14010006,\ on\ left\ bank\ 120\ ft\ upstream\ from\ county\ bridge\ on\ S.\ Dry\ Fork\ Road,\ 3.8\ mi\ west\ of\ intersection\ with\ Roan\ Creek\ Road,\ and\ 7.8\ mi\ northwest\ of\ De\ Beque.$ 

DRAINAGE AREA.--97.4 mi<sup>2</sup>.

 $PERIOD\ OF\ RECORD. -- October\ 1995\ to\ September\ 1998,\ November\ 2000\ to\ September\ 2004\ (discontinued).\ For\ a\ complete\ listing\ of\ historical\ data\ available\ for\ this\ site,\ see\ http://waterdata.usgs.gov/co/nwis/inventory/?site_no=09095300$ 

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,385 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected March to October by diversions for irrigation upstream from gage.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	0.11	0.20	e0.13	e0.10	e0.06	0.74	0.04	0.00	0.11	0.08	0.03	0.04		
2	0.10	0.47	e0.13	e0.12	e0.07	0.71	0.04	0.00	0.10	0.05	0.03	0.04		
3	0.10	0.69	e0.10	e0.09	e0.10	0.66	0.04	0.00	0.08	0.03	0.03	0.05		
4	0.12	0.61	e0.09	e0.05	e0.08	0.75	0.04	0.00	0.06	0.03	0.03	3.3		
5	0.11	0.36	e0.12	e0.02	e0.07	0.89	0.09	0.00	0.08	0.03	0.10	3.3		
6	0.10	0.28	e0.16	e0.03	e0.04	0.43	0.05	0.00	0.08	0.03	4.7	0.33		
7	0.10	0.27	e0.15	e0.09	e0.05	0.47	0.04	0.00	0.06	0.03	0.16	0.18		
8	0.10	0.27	e0.12	e0.08	e0.07	2.8	0.47	0.00	0.04	0.02	0.12	0.15		
9	0.11	0.28	e0.07	e0.06	e0.05	2.6	0.05	0.00	0.03	0.01	0.05	0.12		
10	0.11	1.1	e0.07	e0.07	e0.04	1.1	0.03	0.00	0.03	0.01	0.03	0.11		
11	0.09	1.6	e0.08	e0.06	e0.06	0.45	0.03	0.00	0.04	0.02	0.03	0.11		
12	0.10	0.57	e0.06	e0.06	e0.04	0.11	0.02	0.00	0.05	0.02	0.02	0.10		
13	0.10	0.37	e0.07	e0.05	e0.03	0.08	0.02	0.00	0.04	0.01	0.02	0.10		
14	0.10	1.4	e0.11	e0.06	e0.09	0.05	0.02	0.00	0.04	0.01	0.02	0.12		
15	0.12	0.58	e0.08	e0.08	e0.20	0.04	0.02	0.00	0.03	0.01	0.02	0.09		
16	0.12	0.37	e0.04	e0.10	e0.50	0.03	0.02	0.00	0.05	0.03	0.02	0.10		
17	0.13	0.46	e0.06	e0.06	e1.4	0.03	0.02	0.00	0.06	0.34	e0.02	0.09		
18	0.15	0.92	e0.08	e0.05	e1.5	0.03	0.39	0.00	0.07	0.14	e0.02	0.11		
19	0.11	0.66	e0.08	e0.06	e1.6	0.03	0.62	0.00	0.05	0.08	e0.07	16		
20	0.15	0.59	e0.08	e0.09	e1.3	0.03	0.04	0.00	0.03	0.07	e0.14	12		
21	0.14	0.49	e0.12	e0.06	e1.2	0.03	0.04	0.00	0.04	0.06	0.21	2.1		
22	0.16	0.41	e0.11	e0.05	e1.3	0.04	0.36	0.00	0.04	0.03	0.07	0.43		
23	0.18	e0.04	e0.06	e0.06	e1.4	0.04	1.3	0.00	0.02	0.02	0.06	0.14		
24	0.16	e0.06	e0.07	e0.07	e1.5	0.04	0.00	0.00	0.03	0.02	0.05	0.08		
25	0.16	e0.09	e0.08	e0.06	e1.6	0.04	0.00	0.00	0.03	0.03	0.05	0.16		
26 27 28 29 30 31	0.30 0.08 0.19 0.14 0.28 0.12	e0.09 e0.05 e0.05 e0.10 e0.12	e0.11 e0.07 e0.04 e0.05 e0.08 e0.09	e0.03 e0.05 e0.08 e0.09 e0.10 e0.09	e1.6 e1.7 e1.3 1.1	0.04 0.04 0.04 0.04 0.04 0.04	0.00 0.00 0.00 0.00 0.00	0.00 0.05 0.13 0.18 0.24 0.16	0.16 0.54 0.11 0.09 0.08	0.02 0.21 0.34 0.15 0.10 0.04	0.05 0.04 0.04 0.05 0.04 0.04	0.06 0.06 0.06 0.08 0.09		
TOTAL	4.13	13.55	2.76	2.12	20.05	12.46	3.79	0.76	2.27	2.07	6.36	39.70		
MEAN	0.13	0.45	0.09	0.07	0.69	0.40	0.13	0.02	0.08	0.07	0.21	1.32		
MAX	0.30	1.6	0.16	0.12	1.7	2.8	1.3	0.24	0.54	0.34	4.7	16		
MIN	0.08	0.04	0.04	0.02	0.03	0.03	0.00	0.00	0.02	0.01	0.02	0.04		
AC-FT	8.2	27	5.5	4.2	40	25	7.5	1.5	4.5	4.1	13	79		
MEAN MAX (WY) MIN (WY)	2.28 7.18 (1998) 0.13 (2004)	2.28 5.09 (1998) 0.45 (2004)	1.48 4.58 (1998) 0.02 (2001)	1.65 4.97 (1998) 0.01 (2001)	YEARS 1996 2.82 9.42 (1996) 0.16 (2001)	- 2004, BY V 4.32 12.8 (1998) 0.40 (2004)	2.01 9.42 (1998) 0.13 (2004)	4.26 25.9 (1998) 0.02 (2004)	1.18 4.62 (1998) 0.01 (2001)	1.44 7.50 (1998) 0.00 (2001)	1.36 4.05 (1998) 0.01 (2002)	1.88 6.69 (1997) 0.33 (2001)		
SUMMAI	RY STATIST	TICS		FOR 2003	CALENDAR	YEAR	FOR 20	04 WATER Y	/EAR	WATER	R YEARS 1	996 - 2004		
SUMMARY STATISTICS  ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			М	1	57.21 0.46 17 Sep 0.00 Aug 0.01 Aug 0.58 0.58 0.04	10	1	0.00 A <sub>I</sub> 0.00 A <sub>I</sub> 10 Se	p 19 or 24 or 24 p 19 p 19	· · · · · · · · · · · · · · · · · · ·	2.50 7.84 0.30 95 a0.00 0.00 660 16.93 810 5.4 0.72 0.04	1998 2004 Feb 22, 1996 Jun 17, 1997 Jun 18, 2001 Aug 9, 2001 Aug 9, 2001		

e Estimated.

a No flow many days some years.

b On basis of slope-area measurement of peak flow.

#### 09095500 COLORADO RIVER NEAR CAMEO, CO

 $LOCATION.--Lat~39^{\circ}14'21"~(revised),~long~108^{\circ}15'56"~(revised),~in~SW^{1}_{4}SW^{1}_{4}~sec.30,~T.9~S.,~R.97~W.,~Mesa~County,~Hydrologic~Unit~14010005,~on~left~bank~100~ft~north~of~Interstate~70,~0.5~mi~upstream~from~Jackson~Canyon,~5.9~mi~upstream~from~Grand~Valley~project~diversion~dam,~and~7~mi~northeast~of~Cameo.$ 

DRAINAGE AREA.--8,050 mi<sup>2</sup>, approximately.

 $PERIOD\ OF\ RECORD. -- October\ 1933\ to\ current\ year.\ For\ a\ complete\ listing\ of\ historical\ data\ available\ for\ this\ site,\ see\ http://waterdata.usgs.gov/co/nwis/inventory/\\?site\_no=09095500$ 

REVISED RECORDS .-- WRD Colo. 1973: 1970.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Datum of gage is 4,813.73 ft above NGVD of 1929, (levels by Colorado Department of Highways). Prior to Oct. 10, 1934, nonrecording gage on river and water-stage recorder on Highline Canal, about 10 mi downstream at different datum. Oct. 10, 1934 to Feb. 27, 1958, water-stage recorder at site 3.0 mi downstream at datum 22.55 ft lower. Feb. 27, 1958 to Apr. 10, 2003, water-stage recorder at site 200 ft downstream at same datum

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power development, and diversion for irrigation of about 160,000 acres.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	2,280 2,300 2,340 2,440 2,440	2,040 1,920 1,830 1,880 1,770	1,650 1,720 1,640 1,570 1,510	e1,400 e1,450 1,560 1,480 e1,240	1,270 1,210 1,210 1,250 1,290	1,300 1,250 1,250 1,310 1,360	1,820 1,900 2,020 2,090 2,210	2,390 2,330 2,340 2,590 3,100	4,280 3,930 3,850 4,150 4,730	3,630 3,420 3,150 3,020 2,840	1,940 1,880 1,870 1,910 1,890	1,880 1,900 1,880 2,060 2,230	
6 7 8 9 10	2,430 2,400 2,410 2,390 2,410	1,810 1,710 1,620 1,600 1,650	1,490 1,540 1,580 1,560 1,490	e1,040 e1,090 e1,260 e1,540 e1,510	1,250 1,190 1,150 1,220 1,210	1,300 1,260 1,270 1,290 1,390	2,360 2,370 2,360 2,450 2,660	3,830 4,570 5,090 5,520 5,640	5,590 6,540 7,010 7,010 6,530	2,660 2,550 2,440 2,350 2,250	2,030 2,000 2,000 1,920 1,890	2,130 2,140 2,090 2,040 2,010	
11 12 13 14 15	2,410 2,450 2,500 2,470 2,450	1,700 1,630 1,590 1,640 1,610	1,330 1,350 1,370 1,380 1,530	e1,420 e1,330 e1,160 e1,110 e1,160	1,170 1,160 1,140 1,080 1,090	1,420 1,400 1,420 1,430 1,470	2,690 2,420 2,300 2,170 2,140	5,790 6,070 5,570 4,740 4,130	5,870 4,970 4,310 4,070 4,460	2,130 2,080 2,040 1,940 1,970	1,840 1,920 1,830 1,830 1,840	2,010 1,970 1,910 1,900 1,880	
16 17 18 19 20	2,440 2,420 2,400 2,370 2,360	1,560 1,560 1,570 1,530 1,540	1,540 1,270 1,240 1,390 1,380	1,280 e1,380 e1,340 e1,280 e1,260	1,200 1,250 1,300 1,370 1,390	1,480 1,460 1,400 1,430 1,510	2,130 2,110 2,210 2,290 2,210	3,790 3,750 3,860 4,230 5,200	4,560 4,430 4,240 4,060 3,950	2,200 2,430 2,740 2,630 2,630	1,880 1,820 1,890 1,920 2,080	1,900 1,860 1,940 2,010 2,150	
21 22 23 24 25	2,380 2,380 2,310 2,290 2,240	1,570 1,590 1,580 1,430 1,230	1,390 1,510 1,580 1,400 1,270	e1,330 1,290 1,130 1,100 1,140	1,340 1,330 1,350 1,300 1,370	1,660 1,860 2,000 2,160 2,310	2,130 2,130 2,180 1,950 1,890	6,010 6,030 5,560 5,090 4,880	4,010 4,070 3,680 3,370 3,300	2,540 2,470 2,310 2,220 2,290	2,290 2,270 2,160 2,080 2,000	2,630 2,710 2,520 2,120 2,070	
26 27 28 29 30 31	2,200 2,260 2,130 2,040 2,040 2,010	1,510 1,660 1,610 1,460 1,500	1,280 1,420 1,310 1,190 1,190 1,360	1,170 1,140 1,120 1,260 1,230 1,270	1,350 1,360 1,530 1,410	2,440 2,510 2,470 2,220 2,010 1,970	1,880 1,830 1,780 1,980 2,270	4,730 4,580 4,780 5,090 5,540 4,870	3,370 3,280 3,180 3,080 3,040	2,210 2,100 2,110 2,040 1,920 1,930	1,940 1,880 1,890 1,920 1,910 1,890	1,930 1,790 1,740 1,760 1,980	
TOTAL MEAN MAX MIN AC-FT	72,390 2,335 2,500 2,010 143,600	48,900 1,630 2,040 1,230 96,990	44,430 1,433 1,720 1,190 88,130	39,470 1,273 1,560 1,040 78,290	36,740 1,267 1,530 1,080 72,870	51,010 1,645 2,510 1,250 101,200	64,930 2,164 2,690 1,780 128,800	141,690 4,571 6,070 2,330 281,000	132,920 4,431 7,010 3,040 263,600	75,240 2,427 3,630 1,920 149,200	60,410 1,949 2,290 1,820 119,800	61,140 2,038 2,710 1,740 121,300	
STATIST: MEAN	ICS OF MON 2,146	THLY MEA 1,941	N DATA FC 1,694	OR WATER YE 1,582	EARS 1934 1,591	- 2004, BY W 1,800	ATER YEAR 3,142	8 (WY) 8,981	12,210	5 705	2,828	2,208	
MAX (WY) MIN (WY)	3,732 (1985) 1,084 (1935)	3,253 (1985) 1,038 (1935)	3,002 (1985) 1,004 (1935)	2,621 (1985) 940 (1964)	2,775 (1986) 941 (1935)	3,365 (1986) 1,020 (1935)	8,615 (1962) 1,723 (2003)	20,290 (1984) 2,536 (1977)	25,830 (1984) 2,606 (2002)	5,705 17,430 (1957) 1,515 (1934)	6,571 (1984) 1,332 (1940)	4,271 (1984) 1,243 (1934)	
SUMMAF	RY STATIST	ICS		FOR 2003 CA	LENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 193	4 - 2004	
ANNUAL HIGHEST LOWEST	SUMMARY STATISTICS ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN			1,013,493 2,777	_		829,27 2,26	6		7,6 1,7	751	1984 2002	
LOWEST ANNUAL MAXIMU	DAILY ME. DAILY ME. SEVEN-DA IM PEAK FL IM PEAK ST	AN Y MINIMUN OW	Л	20,300 871 970	Jun Feb Feb	9	7,01 e1,04 1,15 7,45	0 Jan 0 Feb 0 Jun	1 8 1 6 1 10 1 8 1 8		700 De 352 De 300 Ma	y 26, 1984 c 29, 1939 c 24, 1939 y 26, 1984 y 26, 1984	
MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			2,010,000 5,930 2,070 1,090			1,645,00 4,14 1,94 1,26	0 0 0	- 9		000	, =0, 1701		

e Estimated.

# 09097900 PLATEAU CREEK BELOW COLLBRAN, CO

 $LOCATION.--Lat~39^{\circ}14'23", long~107^{\circ}58'15", in~NE^{1}_{4}NE^{1}_{4}~sec. 34,~T.9~S.,~R.95~W.,~Mesa~County,~Hydrologic~Unit~14010005, on~right~bank~15~ft~downstream~from~private~bridge,~0.3~mi~downstream~from~Grove~Creek,~and~0.6~mi~west~of~Collbran.$ 

DRAINAGE AREA.--328 mi<sup>2</sup>.

 $PERIOD\ OF\ RECORD. -- April\ 2003\ to\ current\ year.\ For\ a\ complete\ listing\ of\ historical\ data\ available\ for\ this\ site,\ see\ http://waterdata.usgs.gov/co/nwis/inventory/\\ ?site\_no=09097900$ 

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 5,920 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs and diversions for irrigation.

KEMAKK	SRecords	good except i	or estimated	dany discharg	ges, wnich are	e poor. Natura	1 How of strea	am arrected by	storage rese	ervoirs and di	versions for i	rrigation.		
	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	16 21 26 18 17	18 19 20 21 22	22 22 21 21 20	20 21 22 19 18	18 18 17 18	20 19 21 21 21	74 80 84 83 139	137 126 150 194 239	78 63 57 59 54	15 16 14 14 14	15 14 14 13 13	16 17 15 23 28		
6 7 8 9 10	17 15 16 16 15	20 21 24 24 29	21 23 24 22 20	19 21 21 20 20	17 18 18 18 17	19 20 23 27 32	143 118 120 156 195	283 314 318 302 294	53 56 51 41 39	13 16 16 12 12	23 17 15 14 13	21 18 16 15 17		
11 12 13 14 15	15 15 15 16 16	29 25 26 30 27	21 20 19 21 20	20 20 19 19 20	18 16 17 17 18	35 40 38 37 38	143 146 132 127 123	353 253 197 144 112	36 34 31 29 23	13 11 10 10 e12	13 13 13 11	16 14 14 15 15		
16 17 18 19 20	16 17 16 16 16	25 25 23 24 24	17 19 19 20 20	20 19 18 18 19	18 18 19 21 20	36 33 38 49 65	114 120 127 115 97	103 130 157 274 326	22 24 28 23 20	e13 e14 e17 e13 12	14 16 15 16 15	16 16 16 23 36		
21 22 23 24 25	16 16 16 16 16	25 23 17 18 20	21 21 20 19 20	18 17 17 17 18	20 20 20 20 20 21	76 93 104 115 130	92 105 104 96 107	245 188 133 117 94	20 20 16 14 13	12 11 13 17 15	15 20 19 15 15	70 61 39 35 30		
26 27 28 29 30 31	15 16 17 16 15	21 20 20 21 21	21 21 20 20 21 20	17 17 17 18 18	20 21 24 20	129 109 78 60 58 60	111 125 143 150 157	84 82 111 154 151 113	13 13 12 15 13	16 22 27 22 21 18	13 14 14 16 15 16	29 29 27 27 31		
TOTAL MEAN MAX MIN AC-FT	510 16.5 26 15 1,010	682 22.7 30 17 1,350	636 20.5 24 17 1,260	585 18.9 22 17 1,160	545 18.8 24 16 1,080	1,644 53.0 130 19 3,260	3,626 121 195 74 7,190	5,878 190 353 82 11,660	970 32.3 78 12 1,920	461 14.9 27 10 914	460 14.8 23 11 912	745 24.8 70 14 1,480		
						- 2004, BY W		, ,	42.4	11.1	12.7	22.6		
MEAN MAX (WY) MIN (WY)	16.5 16.5 (2004) 16.5 (2004)	22.7 22.7 (2004) 22.7 (2004)	20.5 20.5 (2004) 20.5 (2004)	18.9 18.9 (2004) 18.9 (2004)	18.8 18.8 (2004) 18.8 (2004)	53.0 53.0 (2004) 53.0 (2004)	121 121 (2004) 121 (2004)	235 280 (2003) 190 (2004)	43.4 54.5 (2003) 32.3 (2004)	11.1 14.9 (2004) 7.34 (2003)	12.7 14.8 (2004) 10.6 (2003)	22.6 24.8 (2004) 20.3 (2003)		
SUMMAI	RY STATIST	TCS					FOR 200	04 WATER Y	EAR	WATER	R YEARS 200	03 - 2004		
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE 50 PERCE	MEAN ANNUAL M ANNUAL M DAILY ME DAILY ME	MEAN AN AN Y MINIMUN OW 'AGE AC-FT) DS DS	М				35 48 33,2 12	45.7 53 May 10 Ju 11 Ju 85 May 4.68 May	1 13 1 9 7 19	33,	5.9 J 6.5 J 780 M	2004 2004 ay 22, 2003 lul 8, 2003 Jul 5, 2003 ay 22, 2003 ay 22, 2003		

e Estimated.

278 PLATEAU CREEK BASIN

# 09105000 PLATEAU CREEK NEAR CAMEO, CO

 $LOCATION.--Lat\ 39^\circ11'00", long\ 108^\circ16'02", in\ SW^{1}_{4}SW^{1}_{4}\ sec. 18,\ T.10\ S.,\ R.97\ W.,\ Mesa\ County,\ Hydrologic\ Unit\ 14010005,\ on\ left\ bank\ 300\ ft\ from\ State\ Highway\ 65,\ 1.15\ mi\ upstream\ from\ mouth,\ and\ 4.0\ mi\ northeast\ of\ Cameo.$ 

DRAINAGE AREA.--592 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1935 to September 1983. October 1985 to current year. Prior to May 1936, monthly discharges only, published in WSP 1313. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09105000

REVISED RECORDS.--WSP 979: 1942. WSP 2124: Drainage area. WDR CO-83-2: 1973 (M), 1975 (M).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,840 ft above NGVD of 1929, from topographic map. Prior to Aug. 27, 1936, nonrecording gage.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, diversions for irrigation of about 25,000 acres, return flow from irrigated areas, and for power development.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	59	60	64	e59	e61	65	108	203	152	63	49	44	
2	63	64	65	e61	e60	59	120	176	137	60	46	43	
3	69	69	e62	e62	59	64	126	203	121	57	45	44	
4	65	67	e60	e58	57	62	126	258	125	56	41	123	
5	60	68	e58	48	56	63	262	301	129	54	40	126	
6	59	66	e59	e53	e60	60	216	348	132	57	70	84	
7	59	66	e59	e56	e56	59	168	380	128	55	61	71	
8	69	66	e61	e55	e58	63	181	384	116	57	55	57	
9	64	68	e59	e53	56	71	210	368	96	52	49	58	
10	59	76	e54	e51	53	80	265	364	88	51	40	64	
11	56	76	e57	e52	56	79	212	454	92	50	38	67	
12	55	71	e56	e52	e56	85	201	346	87	52	37	69	
13	55	70	e55	e51	e62	89	179	283	88	49	36	67	
14	54	82	e57	e53	e64	82	165	224	80	48	34	64	
15	55	74	e55	e56	e56	84	163	185	69	53	34	61	
16	54	70	e52	e63	e60	80	153	175	69	54	35	63	
17	53	71	e59	e61	56	76	155	200	71	60	65	59	
18	54	68	e61	e57	58	79	164	227	85	63	57	61	
19	54	66	e61	e58	74	87	162	320	83	58	61	105	
20	53	69	e57	e61	80	106	137	419	80	54	53	136	
21	52	72	e61	e62	69	121	126	348	84	51	46	272	
22	54	69	e62	58	69	136	167	268	95	42	58	198	
23	53	60	e56	57	69	150	194	207	87	46	56	148	
24	54	e63	e55	64	65	164	159	194	61	71	52	133	
25	54	e65	e57	63	68	174	165	160	56	60	51	133	
26 27 28 29 30 31	54 56 58 59 57 56	e68 e64 e63 e64 e65	e58 e57 e57 e59 e61 e61	e58 e61 e66 e60 e63 e64	67 71 98 73	184 160 131 102 95 95	164 172 201 215 228	148 150 183 253 253 198	57 56 55 57 64	61 78 94 74 61 54	47 41 43 46 46 43	128 126 123 129 122	
TOTAL	1,776	2,040	1,815	1,796	1,847	3,005	5,264	8,180	2,700	1,795	1,475	2,978	
MEAN	57.3	68.0	58.5	57.9	63.7	96.9	175	264	90.0	57.9	47.6	99.3	
MAX	69	82	65	66	98	184	265	454	152	94	70	272	
MIN	52	60	52	48	53	59	108	148	55	42	34	43	
AC-FT	3,520	4,050	3,600	3,560	3,660	5,960	10,440	16,230	5,360	3,560	2,930	5,910	
MEAN MAX	113 333	102 207	N DATA FO 86.1 148	R WATER YE 77.0 117	82.1 148	- 2004, BY W 107 220	7ATER YEAF 240 759	656 1.825	495 2.975	119 796	79.2 328	93.9 255	
(WY)	(1942)	(1987)	(1942)	(1998)	(1958)	(1998)	(1942)	(1942)	(1983)	(1995)	(1983)	(1997)	
MIN	25.2	37.3	42.1	41.4	42.8	58.3	71.9	33.8	15.6	10.2	13.4	17.4	
(WY)	(1978)	(1978)	(1991)	(1961)	(1978)	(1964)	(1990)	(1977)	(2002)	(2002)	(1977)	(1977)	
SUMMAR	RY STATIST	TICS		FOR 2003 CA	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 19	36 - 2004	
LOWEST HIGHEST LOWEST ANNUAL	MEAN ANNUAL M ANNUAL M DAILY ME DAILY ME SEVEN-DA	IEAN AN AN .Y MINIMUM	1	31,069 85. 690 19 20	1 May Jul Jul	17	45 3	4.7 4 May 4 Aug 6 Aug	g 14 g 10	4,1	a7.4 8.2	1983 1977 Jun 25, 1983 Jul 21, 2002 Jul 19, 2002 Jun 15, 1973	
MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			61,630 173 57 28			68,77 18 6	3.66 May '0		136,6		Jun 15, 1973		

e Estimated.

Also occurred Jul 24, 2002.

a Also occurred Jul 24, 2002. b Maximum gage height, 8.73 ft, Jun 16, 1995.

# 09106150 COLORADO RIVER BELOW GRAND VALLEY DIVERSION NEAR PALISADE, CO

 $LOCATION.--Lat~39^{\circ}05'55", long~108^{\circ}21'16", in~NW^{1}_{4}SE^{1}_{2} sec. 3, T.1~S., R.98~W., Mesa~County, Hydrologic~Unit~14010005, on~right~bank~0.25~mi~downstream~of~intake~structure~for~Grand~Valley~Diversion~Canal,~and~0.25~mi~south~of~Palisade.$ 

DRAINAGE AREA.--8,753 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1990 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=09106150

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 4,670 ft above NGVD of 1929, from topographic map.

REMARKS.—Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power development, and diversion for irrigation of about 230,000 acres.

develo	pinent, and d	iversion for ii	rigation of a	50ut 250,000 ac									
DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	1,000 997 1,030 1,110 1,130	1,160 1,150 1,080 1,130 1,060	1,560 1,640 1,580 1,520 1,450	1,420 1,470 1,530 1,470 1,280	1,350 1,280 1,250 1,300 1,320	1,330 1,270 1,270 1,310 1,350	1,570 1,520 1,610 1,700 e1,650	998 951 928 1,180 1,740	2,860 2,440 2,270 2,610 3,240	2,050 1,940 1,690 1,530 1,360	520 460 407 446 478	385 377 361 675 960	
6 7 8 9 10	1,140 1,120 1,120 1,090 1,100	1,180 1,390 1,190 1,220 1,480	1,440 1,490 1,540 1,510 1,450	1,050 1,100 1,300 1,590 1,560	1,280 1,260 1,220 1,260 1,260	1,310 1,250 1,270 1,290 1,380	e1,590 1,540 1,560 1,610 1,780	2,520 3,440 4,160 4,550 4,710	4,030 4,980 5,460 5,510 5,110	1,160 1,040 948 852 775	625 563 536 472 408	787 786 779 755 763	
11 12 13 14 15	1,100 1,120 1,170 1,140 1,130	1,680 1,640 1,580 1,640 1,600	1,340 1,330 1,350 1,370 1,460	1,460 1,380 1,200 1,170 1,190	1,240 1,210 1,210 1,130 1,150	1,420 e1,390 e1,420 e1,430 e1,450	1,820 1,440 1,120 909 759	4,890 4,990 4,390 3,390 2,660	4,580 3,660 2,960 2,660 2,990	658 604 554 449 426	356 405 367 362 341	769 770 686 681 636	
16 17 18 19 20	1,120 1,110 1,090 1,060 1,050	1,560 1,540 1,550 1,500 1,510	1,510 1,290 1,200 1,330 1,350	1,390 1,440 1,410 1,330 1,310	1,230 1,260 1,290 1,360 1,420	1,460 1,430 1,360 1,390 1,460	702 638 731 869 788	2,250 2,180 2,360 2,820 3,930	3,270 3,110 2,920 2,790 2,720	654 973 1,290 1,200 1,200	355 362 395 463 579	661 654 694 884 1,080	
21 22 23 24 25	1,070 1,070 1,010 1,030 1,080	1,530 1,570 1,560 1,430 1,250	1,390 1,440 1,530 1,420 1,280	1,360 1,350 1,240 1,190 1,240	1,360 1,340 1,380 1,320 1,370	1,590 1,770 1,930 2,070 2,020	650 664 967 715 629	4,820 4,820 4,450 3,860 3,600	2,710 2,620 2,270 1,810 1,680	1,050 950 839 748 827	830 859 796 695 611	1,730 1,790 1,510 1,050 992	
26 27 28 29 30 31	1,040 1,040 1,120 963 1,000 1,080	1,400 1,560 1,590 1,410 1,430	1,270 1,380 1,320 1,220 1,200 1,330	1,210 1,140 1,250 1,270 1,330 1,360	1,360 1,340 1,540 1,400	2,350 2,440 2,380 2,130 1,840 1,760	587 503 478 597 881	3,350 3,260 3,370 3,720 4,340 3,590	1,750 1,690 1,600 1,510 1,460	870 781 843 746 613 560	542 451 430 449 458 406	841 738 631 672 812	
TOTAL MEAN MAX MIN AC-FT	33,430 1,078 1,170 963 66,310	42,570 1,419 1,680 1,060 84,440	43,490 1,403 1,640 1,200 86,260	40,990 1,322 1,590 1,050 81,300	37,690 1,300 1,540 1,130 74,760	49,520 1,597 2,440 1,250 98,220	32,577 1,086 1,820 478 64,620	102,217 3,297 4,990 928 202,700	89,270 2,976 5,510 1,460 177,100	30,180 974 2,050 426 59,860	15,427 498 859 341 30,600	24,909 830 1,790 361 49,410	
				OR WATER YE									
MEAN MAX (WY) MIN (WY)	1,164 2,560 (1998) 526 (2003)	1,852 2,484 (1998) 1,220 (1995)	1,670 2,370 (1998) 1,209 (1991)	1,646 2,375 (1998) 1,145 (2003)	1,676 2,416 (1996) 1,156 (2003)	1,920 2,913 (1998) 1,302 (1991)	1,895 4,837 (1996) 710 (2003)	6,886 14,160 (1993) 1,016 (2002)	8,942 20,860 (1997) 935 (2002)	3,524 16,010 (1995) 161 (2002)	1,401 3,897 (1995) 115 (2002)	1,130 2,461 (1997) 241 (2002)	
SUMMAF	RY STATIST	TICS		FOR 2003 CA	LENDAR `	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 1	991 - 2004	
LOWEST	, MEAN TANNUAL N ANNUAL M	MEAN .		734,660 2,013			542,27 1,48	32		5,1 9	310 114 938	1997 2002	
LOWEST ANNUAL MAXIMU	M PEAK FL	AN Y MINIMUN .OW	М	20,300 209 358	Jun Apr Apr	22	5,51 34 36 5,97	41 Aug 54 Aug	15 11 8	29,6 30,6	58 61 600	Jun 17, 1995 Aug 19, 2002 Aug 30, 2002 Jun 17, 1995 Jun 17, 1995	
ANNUAL 10 PERCE 50 PERCE	MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			1,457,000 4,910 1,170 585			1,076,00 2,74 1,29 60	00 40 90	. 0	1,0		van 17, 1770	

e Estimated.

280 LEWIS WASH BASIN

#### 09106200 LEWIS WASH NEAR GRAND JUNCTION, CO

LOCATION.--Lat 39°03'38", long 108°28'38", in NE \(^1\_4\)NE \(^1\_4\) sec.21, T.1 S., R.1 E, Ute Meridian, Mesa County, Hydrologic Unit 14020005, on right bank 70 ft downstream of the 31 Road bridge, 650 ft upstream from mouth, and 4.5 mi east of Grand Junction.

DRAINAGE AREA.--4.72 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1973 to September 1979, April 2002 to April 2004 (discontinued). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09106200

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 4,610 ft above NGVD of 1929, from topographic map. Prior to Apr. 22, 2002 at site 70 ft upstream at different datum.

REMARKS.--Records good except for the period Oct. 1 to Nov. 7 and estimated daily discharges, which are poor. Flow is mostly return flow and waste water from lands irrigated under the Government Highline Canal and Price and Stub Ditches. At times overflow from water delivered by the Grand Valley Canal to Mesa County Ditch flows past station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 190 ft<sup>3</sup>/s, Sept. 10, 2003, gage height, 5.40 ft; minimum daily, 0.02 ft<sup>3</sup>/s, Mar. 29, 2003, and Mar. 29, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum discharge for period October to April, 46 ft<sup>3</sup>/s, Nov. 5, gage height, 3.13 ft; minimum daily, 0.02 ft<sup>3</sup>/s, Mar. 29.

#### DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2	21 25	12 14	0.28 0.29	0.25 1.1	0.20 0.09	0.06 0.07	0.17 0.16					
3	25	14	0.25	0.91	0.12	0.07	0.22					
4	24	14	0.25	0.38	0.92	0.09	0.53					
5	23	26	0.26	0.24	0.38	0.10	e2.1					
6	22	28	0.28	0.29	0.13	0.04	e7.8					
7	21	15	0.29	0.23	0.08	0.04						
8	21	3.2	2.1	0.20	0.08	0.06						
9	19	2.7	0.35	0.19	0.06	0.08						
10	16	2.3	0.25	0.70	0.06	0.09						
11	17	0.73	0.28	0.20	0.07	0.07						
12	15	0.37	0.25	0.19	0.07	0.10						
13	16	0.36	0.23	0.17	0.13	0.10						
14	16	0.40	0.25	0.17	0.14	0.06						
15	15	0.31	0.26	0.18	0.13	0.05						
16	16	0.31	0.18	0.19	0.16	0.08						
17	15	0.54	0.18	0.17	0.24	0.08						
18	16	0.26	0.20	0.16	0.19	0.06						
19	14	0.24	0.21	0.44	0.17	0.05						
20	15	0.29	0.23	0.19	0.13	0.03						
21	15	0.34	0.23	0.16	0.91	0.04						
22	21	0.96	0.22	0.13	0.27	0.07						
23	25	0.24	0.19	0.14	0.09	0.06						
24 25	18	0.22	0.22	0.18	0.08	0.12						
25	11	0.28	0.24	0.20	0.08	0.05						
26	11	0.27	0.31	0.19	0.12	0.04						
27	11	0.25	0.25	0.12	0.17	0.04						
28	11	0.22	0.24	0.16	0.26	0.03						
29	9.7	0.26	0.22	0.16	0.08	0.02						
30	9.7	0.28	0.28	0.17		0.03						
31	10		0.25	0.67		0.05						
TOTAL	524.4	138.33	9.52	8.83	5.61	1.93						
MEAN	16.9	4.61	0.31	0.28	0.19	0.06						
MAX	25	28	2.1	1.1	0.92	0.12						
MIN	9.7	0.22	0.18	0.12	0.06	0.02						
AC-FT	1,040	274	19	18	11	3.8						

CAL YR 2003 TOTAL 3,030.86 MEAN 8.30 MAX 48 MIN 0.02 AC-FT 6010

e Estimated.

# 09107000 TAYLOR RIVER AT TAYLOR PARK, CO

 $LOCATION.--Lat~38^\circ51'37'', long~106^\circ33'58'', in~NW^1/_4NE^1/_4~sec.5, T.14~S., R.82~W., Gunnison~County, Hydrologic~Unit~14020001, on left bank~0.2~mi~upstream~from~Taylor~Park~Reservoir~waterline, 2.7~mi~north~of~Taylor~Park, and 21~mi~northeast~of~Almont.$ 

DRAINAGE AREA.--128 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1929 to September 1934, October 1987 to current year. Records for 1929-1934 provided by Colorado Division of Water Resources, published in WSP 1313. Statistical summary computed for 1988 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09107000

REVISED RECORDS.--WSP 1313: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 9,340 ft above NGVD of 1929, from topographic map. June 1929 to Sept. 1934 water-stage recorder at different datum at site flooded by waters of Taylor Park Reservoir since 1937.

REMARKS.--Records good except for March 20 to May 4, which are fair, and estimated daily discharges, which are poor.

				YEAR OC	TOBER 2003	TO SEPTEM					
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
44	42	e44	e36	e37	e37	54	68	217	181	57	41
57	48	e40	e31	e37	e37	54	74	225	142	58	39
62	54	e38	e30	e38	e38	56	90	262	124	61	40
56	45	e34	e28	e38	e39	55	124	306	114	57	63
54	45	e33	e26	e37	e38	63	161	350	108	56	68
50	45	30	e31	e34	e37	65	204	378	104	59	54
47	46	29	e40	e29	e36	61	236	395	100	56	48
46	46	31	e40	e37	e36	65	259	389	95	53	46
45	44	33	e35	e34	e37	64	279	367	92	50	45
46	52	e33	e34	e30	e38	58	296	341	93	47	46
51	49	e36	e34	e37	e39	52	317	288	89	45	49
46	43	e31	e33	e34	e42	54	276	250	84	44	45
43	52	e28	e32	e29	e45	52	210	229	81	43	47
41	50	e44	e35	e32	e47	56	169	234	79	42	43
43	46	e37	e38	e37	e45	55	157	246	83	42	42
43	43	e29	e40	e37	e43	59	179	235	86	46	40
43	48	e30	e38	e36	e40	66	202	224	165	53	40
43	36	e37	e35	e37	e41	66	205	222	150	56	40
43	e37	e40	e36	e39	e42	58	271	202	116	70	55
42	e41	e41	e38	e38	43	56	342	189	108	64	79
41	e42	e42	e36	e38	54	57	348	189	107	55	66
41	e41	e36	e35	e38	60	54	341	186	89	61	60
40	e32	e36	e36	e38	59	55	302	156	90	61	55
39	e33	e37	e38	e37	59	52	293	148	118	53	52
36	e48	e41	e39	e38	72	55	288	151	91	48	50
35 41 40 39 39 39	e48 e41 e34 e47 e49	e43 e40 e37 e34 e39 e39	e37 e36 e39 e38 e38 e37	e37 e40 e40 e39	69 59 46 43 46 50	54 65 75 75 73	277 295 327 351 280 226	165 154 148 141 246	82 90 81 73 68 64	46 46 48 44 42 41	49 48 47 50 63
1,375	1,327	1,122	1,099	1,052	1,417	1,784	7,447	7,233	3,147	1,604	1,510
44.4	44.2	36.2	35.5	36.3	45.7	59.5	240	241	102	51.7	50.3
62	54	44	40	40	72	75	351	395	181	70	79
35	32	28	26	29	36	52	68	141	64	41	39
2,730	2,630	2,230	2,180	2,090	2,810	3,540	14,770	14,350	6,240	3,180	3,000
								271	160	94.2	63.9
91.3	71.6	53.8	41.9	38.2	50.5	119	447	767	719	236	122
(1996)	(1996)	(1996)	(1997)	(1995)	(1997)	(1996)	(1996)	(1995)	(1995)	(1995)	(1995)
39.6	34.5	30.0	26.6	25.2	28.2	39.4	148	94.9	38.0	28.5	32.6
(1989)	(1989)	(1989)	(2003)	(2003)	(2003)	(1995)	(2002)	(2002)	(2002)	(2002)	(2002)
RY STATIST	TICS		FOR 2003 CA	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 198	8 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 90 PERCENT EXCEEDS		743 e21 22 62,330 199 47	May Mar	2	39 e2 3 45 59,74 22	22.3  15 Jun 16 Jan 12 Dec 15 Jun 12.56 Jun 13	1 5 2 7 1 7	1,: 1,: 77,(	197 56.3 120 Ju 19 So 20 So 400 Ju 4.08 Ju 060 257 52	1995 2002 In 17, 1995 ep 6, 2002 ep 1, 2002 In 18, 1995 In 18, 1995	
	444 57 62 56 54 50 47 46 45 46 43 41 43 43 43 43 43 43 43 43 43 43 43 43 43	44 42 57 48 62 54 56 45 56 45 54 45 50 45 54 45 50 45 47 46 46 46 46 45 44 46 52 51 49 46 43 43 52 41 50 43 46 43 43 48 43 36 43 e37 42 e41 41 e42 41 e41 40 e32 39 e33 36 e48 35 e48 41 e41 40 e32 39 e47 39 e49 39 1,375 1,327 44.4 44.2 62 54 35 32 2,730 2,630 ICS OF MONTHLY MEAN 57.5 47.4 91.3 71.6 (1996) (1996) 39.6 34.5 (1989) (1989) RY STATISTICS TOTAL MEAN ANNUAL MEAN SEVEN-DAY MINIMUM MPEAK STAGE RUNOFF (AC-FT) ENT EXCEEDS ENT EXCEEDS ENT EXCEEDS ENT EXCEEDS	44	OCT NOV DEC JAN  44 42 e44 e36 57 48 e40 e31 62 54 e38 e30 56 45 e34 e28 54 45 e33 e26 50 45 30 e31 47 46 29 e40 46 46 31 e40 45 44 33 e35 46 52 e33 e34 51 49 e36 e34 46 43 e31 e33 43 52 e28 e32 41 50 e44 e35 43 48 e30 e38 43 43 e29 e40 44 e35 43 48 e30 e38 43 43 e37 e38 43 43 e39 e40 43 48 e30 e38 43 36 e37 e35 43 e37 e40 e36 43 e31 e33 43 e39 e40 e36 41 e41 e38 41 e42 e42 e36 41 e41 e38 41 e42 e42 e36 41 e41 e38 41 e41 e36 e35 40 e32 e36 e36 39 e33 e37 e38 36 e48 e41 e39 35 e48 e43 e37 41 e41 e40 e36 40 e34 e37 39 e37 e39 39 e47 e34 e38 39 e49 e39 e38 39 e47 e34 e38 39 e49 e39 e38 39 e47 e34 e38 39 e49 e39 e38 39 e37 e38 60 e36 e36 60 e36 60 e36 60 e36 e36 6	OCT NOV DEC JAN FEB  44	OCT NOV DEC JAN FEB MAR  44 42 e44 e36 e37 e37 62 54 e38 e30 e38 e38 56 45 e34 e28 e38 e39 54 45 c33 e26 e37 e38 50 45 30 e31 e34 e37 46 46 46 31 e40 e37 e36 46 46 31 e40 e37 e36 46 46 31 e40 e37 e36 45 44 33 e36 e34 e37 e38 46 52 e33 e36 e34 e37 e38 51 49 e36 e34 e37 e39 46 46 43 e31 e34 e37 e39 46 46 43 e31 e34 e37 e39 47 46 e36 e34 e37 e39 48 e30 e38 e38 e39 49 e36 e34 e37 e39 41 50 e44 e35 e32 e29 e45 43 52 e28 e32 e29 e45 43 52 e28 e32 e29 e45 43 52 e28 e32 e29 e45 43 43 e30 e38 e36 e40 43 a48 e30 e38 e36 e40 43 a48 e30 e38 e36 e40 43 a37 e40 e36 e37 e35 e32 e47 43 a48 e30 e38 e36 e40 43 e37 e40 e36 e39 e42 42 e41 e41 e36 e35 e32 e39 e42 42 e41 e41 e36 e35 e33 41 e42 e42 e36 e38 e36 40 e32 e36 e30 e38 e36 40 e37 e35 e37 e41 43 e37 e40 e36 e39 e42 41 e41 e36 e35 e33 e38 e36 40 e32 e36 e36 e36 e39 e42 41 e41 e36 e35 e38 e36 40 e32 e36 e36 e36 e39 e42 41 e41 e36 e35 e38 e36 40 e32 e36 e36 e36 e38 e36 40 e32 e36 e36 e36 e39 e42 41 e41 e36 e35 e38 e36 40 e32 e36 e36 e36 e36 e38 e36 40 e32 e36 e36 e36 e36 e38 e36 40 e32 e36 e36 e36 e36 e38 e36 40 e32 e36 e39 e32 e39 e32 42 e31 e34 e37 e39 e30 e38 e32 e36 e39 43 e33 e37 e38 e37 e39 e36 44 e41 e39 e38 e37 e39 e36 44 e44 e42 e36 e35 e38 e36 46 e40 e34 e37 e39 e30 e38 e36 47 e34 e38 e39 e38 e37 e39 e38 e36 48 e41 e39 e38 e37 e39 e38 e36 49 e39 e39 e38 e37 e39 e38 e36 40 e34 e37 e39 e30 e38 e36 40 e36 e36 e36 e36 e36 e36 e36 e36 40 e36 e39 e39 e39 e38 e38 e39 40 e39	OCT NOV DEC JAN FEB MAR APR  44	OCT NOV DEC JAN FEB MAR APR MAY  44	NOCT	WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004   DAILY MEAN VALUES	Not

e Estimated.

# 09109000 TAYLOR RIVER BELOW TAYLOR PARK RESERVOIR, CO

LOCATION.--Lat 38°49'06", long 106°36'31", Gunnison County, Hydrologic Unit 14020001, on bridge 1,000 ft downstream from Taylor Park Reservoir Dam, 3.4 mi upstream from Lottis Creek, and 17 mi northeast of Almont.

DRAINAGE AREA.--254 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1929 to September 1934 (monthly discharges only, published in WSP 1313), October 1938 to current year. Statistical summary computed for 1939 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09109000

REVISED RECORDS .-- WSP 1924: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 9,169.67 ft above NGVD of 1929, (levels by U.S. Bureau of Reclamation). Prior to Nov. 11, 1952, at site 1,600 ft downstream, at datum 1.00 ft lower. Oct. 15, 1946 to May 4, 1952, supplementary nonrecording gage just downstream from reservoir outlet at different sites and datums used during winter months.

REMARKS.—No estimated daily discharges. Records good. Flow regulated by Taylor Park Reservoir (station 09108500) since 1937. One small diversion for irrigation from Willow Creek upstream from reservoir.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	100 100 100 100 100	53 53 53 53 53	53 53 53 51 51	53 53 52 52 51	51 51 51 51 51	53 53 53 53 53	53 53 53 53 53	101 101 114 138 150	207 231 250 250 250	305 305 305 305 304	298 296 294 295 295	247 246 246 246 246	
6 7 8 9 10	77 51 51 51 51	53 53 53 53 53	52 53 52 53 53	51 52 53 53 53	51 51 51 51 51	53 53 53 53 53	53 53 53 53 53	150 150 150 150 149	250 251 251 251 252	306 305 305 305 304	294 294 294 294 293	245 245 244 245 243	
11 12 13 14 15	51 51 51 50 51	53 53 53 53 53	53 53 53 51 49	53 53 53 53 53	52 51 51 51 51 52	53 53 53 53 53	53 53 52 52 52 53	148 147 147 147 147	251 252 252 252 252 252	304 303 304 303 303	292 290 289 289 289	244 244 244 243 243	
16 17 18 19 20	53 53 53 53 53	53 53 52 51 51	49 48 48 48 49	53 53 53 53 53	52 53 52 53 51	53 53 53 53 53	53 53 53 53 53	148 172 201 202 202	282 303 303 304 304	303 304 303 302 302	289 288 289 288 284	242 243 242 243 243	
21 22 23 24 25	53 53 53 53 53	52 53 53 52 53	51 51 51 51 52	53 53 52 51 51	52 53 53 52 53	53 53 53 53 53	53 52 76 101 101	203 204 204 204 204	304 304 305 305 305	302 302 302 301 299	284 284 283 283 282	242 242 243 242 242	
26 27 28 29 30 31	53 53 53 53 53 53	53 51 51 52 52	53 53 52 51 52 53	51 50 50 50 51 51	53 53 53 53 	53 53 53 53 53 53	101 101 101 101 101	205 204 205 205 206 206	305 306 305 305 305	299 299 298 299 298 298	283 282 281 280 280 271	241 241 241 241 241	
TOTAL MEAN MAX MIN AC-FT	1,883 60.7 100 50 3,730	1,577 52.6 53 51 3,130	1,595 51.5 53 48 3,160	1,616 52.1 53 50 3,210	1,503 51.8 53 51 2,980	1,643 53.0 53 53 53 3,260	1,946 64.9 101 52 3,860	5,264 170 206 101 10,440	8,247 275 306 207 16,360	9,377 302 306 298 18,600	8,927 288 298 271 17,710	7,300 243 247 241 14,480	
				R WATER Y		,		` ′	220	202	252	202	
MEAN MAX (WY) MIN (WY)	186 586 (1969) 11.4 (1962)	94.1 438 (1968) 10.0 (1941)	74.5 353 (1966) 6.00 (1964)	64.3 195 (1966) 4.02 (1964)	62.8 196 (1971) 4.00 (1964)	85.7 320 (1986) 4.19 (1964)	146 655 (1970) 9.44 (1964)	181 550 (1962) 0.00 (1940)	328 931 (1948) 0.00 (1940)	392 1,249 (1957) 147 (1964)	353 646 (1950) 166 (2002)	383 809 (1956) 99.5 (1961)	
SUMMAR	RY STATIST	ICS		FOR 2003 C	ALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 193	9 - 2004	
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU	MEAN ANNUAL M ANNUAL M DAILY ME DAILY MEA SEVEN-DA M PEAK FL M PEAK ST	IEAN AN AN Y MINIMUN OW AGE	М	41,260 113 254 48 49	Jul Dec Dec	17	31	99 06 Jur 18 Dec 19 Dec 17 Jur 4.48 Jur	1 27 2 17 2 14 1 28 1 28	2,1 2,2	a0.00 Ma 0.00 Ma 270 Ju 7.56 Ju	1995 1941 ul 1, 1957 ry 1, 1940 ry 1, 1940 ul 1, 1957 ul 1, 1957	
MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			81,840 249 63 52			5	00 02 53 51		1	100 168 107 19			

a Also occurred May 2 to Jul 3, 1940, May 7-22, 1942, May 5-21, 1943.

ш.

AUG

SEP

283

#### 09110000 TAYLOR RIVER AT ALMONT, CO

LOCATION.--Lat 38°39′52", long 106°50′41", in NW  $^{1}_{4}$ SE  $^{1}_{4}$  sec.22, T.51 N., R.1 E., Gunnison County, Hydrologic Unit 14020001, on left bank at Almont, 15 ft downstream from bridge on State Highway 306, and 800 ft upstream from confluence with East River.

DRAINAGE AREA.--477 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1910 to current year. Monthly discharge only for some periods, published in WSP 1313. For a complete listing of historical data available for this site, see http:// waterdata.usgs.gov/co/nwis/inventory/?site\_no=09110000

REVISED RECORDS .-- WSP 1213: 1911. WSP 1924: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Datum of gage is 8,010.76 ft above NGVD of 1929. Prior to Apr. 16, 1922, nonrecording gage at same site and datum.

DISCHARGE, CUBIC FEET PER SECOND

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow partly regulated since September 1937 by Taylor Park Reservoir (station 09108500), 24 mi upstream from station. Diversions for irrigation of about 360 acres upstream from station.

#### WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES DAY OCT NOV DEC JUN JAN **FEB** MAR APR MAY 102 138 e96 e92 e92 e84 128 176 383

1 2 3 4	138 146 148 148	102 105 111 104	e96 e93 e89 e88	e92 e91 e86 e79	e92 e90 e94 e94	e84 e88 e83 e92	128 135 136 135	176 177 187 232	383 395 433 457	420 401 388 384	350 347 348 342	278 276 276 288
5	149	103	e85	e66	e94	e91	141	261	467	378	331	286
6 7 8 9 10	148 113 109 109	102 105 105 103 108	e86 e87 e89 e84 e75	e82 e90 e93 e85 e86	e85 e89 e93 e89 e92	e92 e89 e93 e95 e96	150 149 151 158 151	275 296 314 322 346	479 479 468 453 429	381 381 380 376 374	328 327 325 322 320	283 281 281 282 285
11 12 13 14 15	110 108 108 107 107	105 99 105 106 105	e81 e78 e77 e86 e82	e82 e79 e79 e85 e93	e94 e86 e82 e87 e91	95 96 96 97 102	138 141 139 145 143	367 365 343 319 308	404 391 377 373 381	369 363 362 358 372	320 319 320 319 321	285 285 284 280 280
16 17 18 19 20	108 107 105 106 106	102 e101 e99 e97 e100	e78 e81 e83 e85 e89	e94 e91 e82 e86 e92	e93 e93 e92 e92 e92	100 102 105 106 111	147 151 156 141 135	302 319 365 397 436	399 432 433 425 417	378 382 413 391 383	318 320 323 326 325	280 280 281 291 303
21 22 23 24 25	106 108 107 106 104	e100 e94 e89 e91 e99	e91 e92 e85 e88 e91	e90 e85 e90 e90 e92	e92 e89 e93 e92 e89	117 122 128 132 136	121 117 123 159 169	444 451 436 425 419	413 410 399 373 364	374 367 367 369 365	324 327 326 322 318	294 285 278 276 276
26 27 28 29 30 31	103 106 106 102 102 102	e98 e93 e93 e98 e96	e90 e88 e88 e91 e95 e92	e89 e92 e94 e94 e95 e92	e87 e92 e85 e84	140 140 125 116 117 120	165 169 170 168 174	415 423 429 452 430 397	378 392 386 387 453	362 366 366 364 359 354	314 313 312 311 311 309	276 274 274 276 287
TOTAL MEAN MAX MIN AC-FT	3,541 114 149 102 7,020	3,018 101 111 89 5,990	2,683 86.5 96 75 5,320	2,716 87.6 95 66 5,390	2,617 90.2 94 82 5,190	3,306 107 140 83 6,560	4,405 147 174 117 8,740	10,828 349 452 176 21,480	12,430 414 479 364 24,650	11,647 376 420 354 23,100	10,038 324 350 309 19,910	8,461 282 303 274 16,780
STATIST	ICS OF MO	NTHLY MEA	AN DATA FO	R WATER Y	EARS 1910	- 2004, BY W	ATER YEAR	R (WY)				
MEAN MAX (WY) MIN (WY)	242 699 (1969) 60.3 (1938)	154 518 (1968) 53.3 (1938)	121 424 (1966) 39.8 (1963)	110 240 (1966) 40.8 (1941)	109 288 (1971) 35.2 (1941)	133 456 (1985) 34.6 (1938)	244 784 (1970) 55.8 (1941)	592 1,485 (1936) 129 (1940)	904 2,419 (1914) 109 (1940)	565 1,975 (1957) 168 (1931)	411 707 (1960) 83.2 (1913)	386 855 (1956) 91.6 (1937)
SUMMAF	RY STATIST	TICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	)4 WATER Y	EAR	WATER	YEARS 191	0 - 2004
ANNUAL TOTAL ANNUAL MEAN			70,258 192			75,69 20				332	1005	

SUMMARY STATISTICS	FOR 2003 CALE	NDAR YEAR	FOR 2004 WA	TER YEAR	WATER YEARS	S 1910 - 2004
ANNUAL TOTAL	70,258.0		75,690			
ANNUAL MEAN	192		207		332	
HIGHEST ANNUAL MEAN					550	1995
LOWEST ANNUAL MEAN					155	1977
HIGHEST DAILY MEAN	732	May 30	479	Jun 6	3,600	Jun 9, 1920
LOWEST DAILY MEAN	e75	Dec 10	e66	Jan 5	a24	Mar 12, 1938
ANNUAL SEVEN-DAY MINIMUM	80	Dec 10	80	Dec 10	27	Feb 19, 1941
MAXIMUM PEAK FLOW			495	Jun 6	b3,760	Jun 9, 1920
MAXIMUM PEAK STAGE			c2.52	Jun 6	d5.00	Jun 9, 1920
ANNUAL RUNOFF (AC-FT)	139,400		150,100		240,600	
10 PERCENT EXCEEDS	376		391		724	
50 PERCENT EXCEEDS	109		137		194	
90 PERCENT EXCEEDS	84		87		85	

Minimum discharge observed for period of record, before storage began in Taylor Park Reservoir, 50 ft<sup>3</sup>/s for several days in Aug 1913, gage height, 1.2 ft.

From rating curve extended above 2,300 ft<sup>3</sup>/s.

Maximum gage height, 3.12 ft, Feb 16, backwater from ice.

d Maximum gage height, 5.32 ft, Jul 1, 1957.

# 09111500 SLATE RIVER NEAR CRESTED BUTTE, CO

DRAINAGE AREA.--68.9 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1940 to September 1951, October 1993 to current year. Monthly discharges only for some periods, published in WSP 1313. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09111500

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 8,820 ft above NGVD of 1929, from topographic map. Prior to Oct. 1, 1993, gage at site 0.3 mi downstream at different datum.

REMARKS.--Records good except Mar. 21 to June 12, which are fair, and June 13 to July 15 and estimated daily discharges, which are poor. Diversions for irrigation of about 1,300 acres upstream and downstream from station.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES  DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	15 18 19 20 19	13 14 16 15	e13 e14 e12 e12 e12	e14 e13 e12 e10 e7.5	e8.7 e8.6 e9.7 e9.3 e9.1	e9.6 e10 e11 e12 e12	111 130 131 122 157	181 190 256 340 413	243 251 308 421 502	250 232 206 186 173	21 19 19 18 17	8.9 8.7 8.5 12 15		
6 7 8 9 10	18 17 17 17 16	14 14 14 14 16	15 15 e13 e12 e9.5	e8.8 e15 e14 e12 e12	e7.9 e7.5 e12 e9.8 e7.6	e10 e11 e13 e13 e17	158 150 172 175 135	498 564 594 591 576	546 561 552 518 451	163 155 137 121 108	16 15 14 13 12	12 11 11 10 10		
11 12 13 14 15	16 16 15 15	15 15 15 16 16	e12 e9.0 e12 e17 e9.9	e10 e9.9 e8.7 e11 e13	e10 e8.4 e7.7 e9.8 e12	e23 e24 e29 e34 e30	111 93 84 95 108	587 503 390 304 264	365 304 296 295 288	98 86 79 73 69	11 11 11 11 11	11 11 12 12 11		
16 17 18 19 20	13 14 14 15 15	15 16 e17 e17 e18	e8.4 e8.8 e11 e12 e12	e15 e13 e10 e10 e14	e12 e11 e12 e14 e14	32 e29 e31 e38 e51	132 167 178 139 118	281 319 367 497 597	243 282 293 283 283	63 70 64 60 50	11 11 11 11 11	11 11 11 15 46		
21 22 23 24 25	15 15 15 15 14	15 e16 e13 e13 e16	e15 e16 e9.5 e11 e13	e10 e7.7 e9.3 e11 e12	e12 e11 e10 e9.5 e11	e62 91 99 102 129	106 98 85 77 79	584 535 447 429 414	268 211 198 195 192	44 38 37 37 32	12 14 13 12 12	47 34 28 29 29		
26 27 28 29 30 31	14 14 14 14 14 13	e15 e14 e12 e15 e17	e14 e12 e9.2 e8.4 e12 e14	e9.7 e8.8 e12 e10 e9.3 e8.9	e10 e12 e12 e9.1	168 161 122 95 81 86	88 127 167 185 211	409 432 461 469 361 277	247 244 227 220 294	30 29 27 26 24 22	10 10 10 9.8 9.4 9.1	27 26 24 24 27		
TOTAL MEAN MAX MIN AC-FT	480 15.5 20 13 952	451 15.0 18 12 895	373.7 12.1 17 8.4 741	341.6 11.0 15 7.5 678	297.7 10.3 14 7.5 590	1,635.6 52.8 168 9.6 3,240	3,889 130 211 77 7,710	13,130 424 597 181 26,040	9,581 319 561 192 19,000	2,789 90.0 250 22 5,530	395.3 12.8 21 9.1 784	553.1 18.4 47 8.5 1,100		
				OR WATER Y				` ′		100	40.4	24.5		
MEAN MAX (WY) MIN (WY)	30.2 68.4 (1998) 10.2 (1943)	23.0 38.4 (1998) 8.63 (1943)	16.3 25.1 (1994) 8.03 (1943)	13.6 23.5 (1996) 8.35 (1947)	12.4 21.6 (2002) 6.20 (1945)	21.5 52.8 (2004) 8.52 (1950)	124 303 (1943) 36.4 (1944)	520 778 (1941) 248 (2002)	555 971 (1995) 134 (2002)	189 804 (1995) 17.9 (2002)	49.4 237 (1995) 7.74 (2002)	26.5 62.7 (1995) 13.8 (1942)		
SUMMAR	RY STATIST	TICS		FOR 2003 C	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 19	940 - 2004		
LOWEST HIGHEST LOWEST ANNUAL	MEAN ANNUAL MANNUAL MANNUAL ME DAILY ME SEVEN-DA	MEAN AN AN AY MINIMUN	М	39,105 107 1,260 e8 11	May	16	59	92.7 97 May e7.5 Jan 8.7 Feb	5 1	1,;	3.9 N 4.6 A	1995 2002 Jun 17, 1995 Nov 26, 1942 Aug 31, 2002		
MAXIMU ANNUAL 10 PERCE 50 PERCE	IM PEAK FL IM PEAK ST RUNOFF (A ENT EXCEE ENT EXCEE ENT EXCEE	TAGE AC-FT) DS DS		77,570 325 19 13	; •		67,27 29 1	5.00 Jun 70		96,9	5.84	Jun 17, 1995 Jun 17, 1995		

e Estimated.

# 09112200 EAST RIVER BELOW CEMENT CREEK NEAR CRESTED BUTTE, CO

 $LOCATION.--Lat~38^\circ47'03", long~106^\circ52'13", in~NE^{1}_{4}NE^{1}_{4}sec.3, T.15~S., R.85~W., Gunnison~County, Hydrologic~Unit~14020001, on~left~bank~11~ft~downstream~from~bridge~on~State~Highway~135, 1.6~mi~downstream~from~Cement~Creek,~and~8.5~mi~southeast~of~Crested~Butte.$ 

DRAINAGE AREA.--238 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1963 to September 1972, October 1979 to September 1981, October 1993 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09112200

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 8,440 ft above NGVD of 1929, from topographic map. Prior to Oct. 1993, water-stage recorder 0.5 mi upstream, at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 4,500 acres upstream and downstream from station.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES  DAY OCT NOV DEC IAN FER MAR APR MAY IUN IIII. AUG SEP													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	70 78 89 89 90	59 62 78 70 65	e65 e62 e58 e56 e56	e64 e62 e60 e60 e59	e56 e55 e56 e56 e56	e54 e54 e55 e55 e55	244 282 293 279 342	319 297 383 523 678	614 621 742 933 1,090	431 388 353 328 305	134 131 128 125 119	72 71 67 79 93	
6 7 8 9 10	87 84 81 77 77	60 67 65 63 76	e58 e58 e62 e59 e58	e62 e67 e65 e65 e64	e54 e52 e57 e56 e53	e55 e54 e55 e55 e55	347 344 381 402 354	805 947 1,030 1,070 1,040	1,190 1,230 1,200 1,130 999	294 297 270 252 239	118 114 110 105 96	87 80 75 72 72	
11 12 13 14 15	81 77 74 71 78	73 61 79 81 77	e59 e59 e62 e64 e61	e63 e63 e64 e73 e68	e55 e54 e53 e53 e54	e58 e70 e80 e84 e90	303 291 273 291 304	1,060 951 767 621 543	828 690 645 722 786	231 238 234 228 228	94 86 82 82 81	75 72 72 71 69	
16 17 18 19 20	72 e78 e60				e55 e55 e55 e56 e55	e84 85 93 105 127	332 384 395 336 312	568 619 652 886 1,110	731 679 643 594 604	219 258 263 247 221	82 84 85 87 85	69 68 66 72 101	
21 22 23 24 25				e59 e56 e55 e57 e58	e55 e55 e55 e54 e54	162 197 226 233 259	306 295 283 259 263	1,110 1,080 914 853 866	602 522 452 436 427	204 190 182 185 172	87 94 94 89 83	124 109 99 98 96	
26 27 28 29 30 31	62 70 68 66 64 61	e75 e65 e70 e78 e73	e61 e60 e58 e59 e63 e62	e55 e56 e58 e58 e57 e57	e54 e55 e56 e55 	297 287 235 203 198 209	263 311 377 394 421	846 889 958 1,040 851 689	447 412 385 390 555	164 168 165 155 149 142	80 78 78 81 77 75	91 88 84 80 91	
MEAN MAX MIN AC-FT 4	•	2,089 69.6 81 58 4,140	1,849 59.6 65 56 3,670	1,892 61.0 73 55 3,750	1,589 54.8 57 52 3,150	3,929 127 297 54 7,790	9,661 322 421 244 19,160	24,965 805 1,110 297 49,520	21,299 710 1,230 385 42,250	7,400 239 431 142 14,680	2,944 95.0 134 75 5,840	2,463 82.1 124 66 4,890	
MEAN MAX (WY) MIN	TATISTICS OF MONTHLY MEAN DATA IEAN 112 87.1 68.0 IAX 188 125 96.2 WY) (1966) (1998) (1966) IIN 58.5 62.4 48.6		68.0 96.2 (1966) 48.6 (2003)	60.6 83.2 (1971) 43.8 (1995)	56.9 76.0 (1971) 42.7 (1964)	71.1 127 (2004) 43.5 (1964)	245 404 (1971) 77.0 (1964)	995 1,606 (1996) 406 (1981)	1,237 2,450 (1995) 309 (2002)	511 1,796 (1995) 102 (2002)	197 609 (1995) 63.5 (2002)	132 271 (1965) 64.3 (1994)	
SUMMARY S	CS		FOR 2003 CA	ALENDAR '	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 196	4 - 2004		
ANNUAL TO ANNUAL ME HIGHEST AN LOWEST AN HIGHEST DA LOWEST DA ANNUAL SE MAXIMUM F MAXIMUM F ANNUAL RU 10 PERCENT 50 PERCENT 90 PERCENT	EAN NUAL M NUAL M AILY MEA ILY MEA VEN-DA PEAK FLG PEAK STA INOFF (A EXCEED	EAN AN N Y MINIMUM OW AGE C-FT) OS	1	97,631 267 2,490 e32 38 193,700 713 81 44	May Feb Feb	7	163,50 66 8	5 Jur 2 Feb 4 Feb 0 Jur 3.52 Jur 0 0	7 2 10 7	3,6 4,2 228,2	32 Fe 38 Fe 350 Ju a5.06 Ju	1995 2002 n 17, 1995 b 7, 2003 b 3, 2003 n 18, 1995 n 18, 1995	

e Estimated.
a Maximum gage height for period of record, 8.30 ft, Jun 12, 1980, from floodmarks, site and datum then in use.

#### 09112500 EAST RIVER AT ALMONT, CO

LOCATION.--Lat 38°39'52", long 106°50'51", in  $NW^{1}_{4}SE^{1}_{4}$  sec. 22, T.51 N., R.1 E., Gunnison County, Hydrologic Unit 14020001, on left bank at Almont, 200 ft upstream from bridge on State Highway 135, and 400 ft upstream from confluence with Taylor River.

DRAINAGE AREA.--289 mi<sup>2</sup>.

PERIOD OF RECORD.--April to October 1905, July 1910 to September 1922, October 1934 to current year. Monthly discharges only for some periods, published in WSP 1313. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09112500

REVISED RECORDS.--WSP 1313: 1911. WSP 1733: 1952. WSP 1924: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 8,006.29 ft above NGVD of 1929. Apr. 16 to Sept. 30, 1905, and July 27, 1910 to Apr. 30, 1922, nonrecording gages at bridge 200 ft downstream, at different datums. Oct. 1, 1934 to Sept. 22, 1954, water-stage recorder at present site at datum 2.00 ft higher.

REMARKS.--Records good except for discharges above 900 ft<sup>3</sup>/s, which are fair, and estimated daily discharges, which are poor. Diversions for irrigation of about 7,400 acres upstream from station.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES  DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	63 65 71 72 90	74 74 90 83 73	76 75 66 61 63	e68 e66 e65 e62 e59	e56 e56 e56 e56 e56	e54 e54 e55 e55 e55	254 279 290 272 322	338 303 354 442 602	500 480 576 757 926	391 365 e345 e325 e315	155 151 147 143 139	103 99 92 101 111		
6 7 8 9 10	120 121 113 112 108	61 69 71 71 84	e63 e62 e65 e65 e63	e62 e67 e66 e65 e64	e54 e53 e57 e56 e53	e56 e55 e55 e55 e56	338 335 366 388 363	767 920 1,010 1,090 1,100	1,040 1,100 1,080 1,020 881	e302 e301 e278 e256 230	139 132 126 128 162	108 99 94 92 92		
11 12 13 14 15	112 111 109 106 107	85 75 84 88 87	e64 e65 e67 e68 e65	e64 e64 e64 e72 e70	e55 e54 e54 e54 e55	e58 73 84 85 98	317 310 288 298 305	1,120 1,010 807 648 563	721 580 524 592 667	226 228 227 214 217	158 145 135 131 126	92 92 87 83 83		
16 17 18 19 20	113 109 102 99 97	77 85 73 71 74	e63 e62 e63 e65 e66	e67 e63 e60 e61 e62	e55 e55 e55 e56 e56	89 94 102 112 134	325 362 379 340 321	590 641 655 888 1,160	612 551 e521 494 501	216 242 279 275 258	124 117 115 126 131	84 67 64 65 80		
21 22 23 24 25	94 91 91 89 89	85 90 67 80 88	e67 e67 e67 e66 e67	e60 e58 e57 e59 e59	e56 e55 e55 e55 e55	171 210 241 247 265	309 306 302 277 277	1,180 1,150 977 e930 e923	e484 e457 e447 e439 e436	199 192 179 181 170	127 137 135 124 136	122 115 101 96 94		
26 27 28 29 30 31	84 83 80 80 85 78	89 70 76 91 81	e68 e68 e66 e62 e66 e67	e56 e57 e60 e59 e58 e57	e55 e56 e56 e56	304 306 259 223 221 225	276 313 363 375 401	909 953 1,030 1,110 893 654	e455 e425 e401 e407 492	165 167 162 156 150 149	127 121 118 116 111 106	83 68 67 66 73		
TOTAL MEAN MAX MIN AC-FT	2,944 95.0 121 63 5,840	2,366 78.9 91 61 4,690	2,038 65.7 76 61 4,040	1,931 62.3 72 56 3,830	1,601 55.2 57 53 3,180	4,151 134 306 54 8,230	9,651 322 401 254 19,140	25,717 830 1,180 303 51,010	18,566 619 1,100 401 36,830	7,360 237 391 149 14,600	4,088 132 162 106 8,110	2,673 89.1 122 64 5,300		
				R WATER YE				` ′						
MEAN MAX (WY) MIN (WY)	116 279 (1912) 56.3 (1978)	95.0 172 (1987) 47.8 (1978)	73.0 128 (1985) 42.0 (1977)	62.2 102 (1985) 25.5 (1940)	59.4 90.4 (1962) 28.7 (1940)	69.0 137 (1986) 43.1 (1976)	249 670 (1936) 77.2 (1964)	1,016 1,978 (1936) 222 (1977)	1,344 2,670 (1920) 282 (2002)	551 2,037 (1957) 93.5 (1977)	231 659 (1995) 25.0 (1913)	129 271 (1965) 52.4 (1977)		
SUMMAR	RY STATIST	TCS		FOR 2003 CA	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 19	11 - 2004		
LOWEST HIGHEST	MEAN ANNUAL M ANNUAL M DAILY ME	MEAN AN		91,781 251 2,370 e37	May		83,08 22 1,18	7 0 May		5		1995 1977 un 12, 1918		
ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE	DAILY MEA SEVEN-DA IM PEAK FL IM PEAK ST RUNOFF (A ENT EXCEE ENT EXCEE	Y MINIMUM OW 'AGE AC-FT) DS	1	182,000 655 91	Feb Feb		e5 e5 1,26 b 164,80 59	4 Feb 0 May 4.85 May 0	10 21		21 J 600 J c6.60 J	ug 13, 1913 an 15, 1940 un 15, 1921 un 15, 1921		
90 PERCE	ENT EXCEE	DS		49			5	6			55			

Estimated.
 Site and datum then in use, from rating curve extended above 3,000 ft<sup>3</sup>/s.
 Maximum gage height, 5.20 ft, Jun 7.
 Maximum gage height 8.41 ft, Jun 18, 1995, present datum.

# 09113980 OHIO CREEK ABOVE MOUTH, NEAR GUNNISON, CO

 $LOCATION.--Lat~38°35'16", long~106°55'51", in~SW^{1}{}_{\!\!\!/}4SW^{1}{}_{\!\!\!/}4sec.13, T.50~N., R.1~W., Gunnison~County, Hydrologic~Unit~14020002, on left bank at County~Road~48~bridge, 1.1~mi~upstream~from~confluence~with~the~Gunnison~River, and 3.1~mi~north~of~Gunnison.$ 

DRAINAGE AREA.--161 mi<sup>2</sup>.

PERIOD OF RECORD.--December 1998 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=09113980

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,770 ft above NGVD of 1929, from topographic map.

REMARKS .-- Records good except for the period May 5 to July 20 which is fair, and estimated daily discharges, which are poor. Diversions for irrigation of about 10,000 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES  DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP													
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
e16 e23 e21 e20 e19	7.0 7.0 9.1 7.6 6.8	e12 e12 e17 e19 e17	e19 e17 e14 e11 e9.0	e12 e12 e9.6 e9.6 e7.6	e9.3 e8.4 e10 e11 e10	82 91 91 86 115	51 50 61 83 96	100 113 136 135 137	139 101 75 72 70	45 44 42 38 38	18 16 15 21 31		
e18 e17 e17 e18 e15	6.1 8.1 7.1 6.7 8.5	e12 e12 e12 e14 e13	e10 e17 e17 e14 e15	e7.6 e10 e14 e9.3 e6.6	e11 e11 e15 e17 e20	118 103 124 132 119	117 126 120 132 131	161 173 186 174 150	70 75 79 71 68	40 37 35 32 29	24 21 19 19 20		
e18 e15 e15 e13	8.2 7.8 9.7 9.4 8.9	e16 e13 e11 e11 e13	e15 e13 e12 e16 e18	e9.3 e8.4 e10 e7.5 e10	e22 e26 29 38 45	98 89 77 81 86	133 129 106 81 69	125 110 100 96 101	70 63 58 64 80	28 26 26 21 17	22 22 23 21 20		
10 9.5 9.0 8.9 8.1	7.3 9.7 8.4 e8.9 e9.3	e8.5 e10 e14 e16 e16	e20 e18 e14 e15 e20	e10 e9.3 e11 e12 e11	37 42 48 54 65	93 103 111 83 67	66 66 87 107 146	111 112 118 102 88	126 204 203 147 125	18 19 22 25 27	19 19 20 24 35		
6.7 7.0 7.0 6.9 6.7	e9.6 e9.2 e8.6 e8.2 e11	e17 e9.3 e9.0 e9.9 e15	e17 e9.3 e9.6 e14 e16	e14 e12 e11 e15 e15	78 84 86 87 100	67 63 61 47 41	164 169 148 129 125	87 86 77 78 81	105 91 85 90 71	27 37 38 29 24	38 35 27 26 24		
5.7 7.0 7.8 7.1 7.0 6.7	e11 e10 e9.3 e11 e17	e19 e18 e14 e10 e18 e19	e13 e14 e16 e14 e14	e12 e18 e12 e12	113 102 80 64 64 68	39 36 54 63 69	122 127 142 172 177 120	89 93 96 91 188	63 76 70 60 57 50	22 21 22 20 19	23 25 28 32 35		
377.1 12.2 23 5.7 748	266.5 8.88 17 6.1 529	426.7 13.8 19 8.5 846	454.9 14.7 20 9.0 902	317.8 11.0 18 6.6 630	1,454.7 46.9 113 8.4 2,890	2,489 83.0 132 36 4,940	3,552 115 177 50 7,050	3,494 116 188 77 6,930	2,778 89.6 204 50 5,510	887 28.6 45 17 1,760	722 24.1 38 15 1,430		
16.7 25.9 (2000) 12.2 (2004)	13.1 16.3 (2000) 8.88 (2004)	15.7 21.2 (2000) 12.1 (2003)	14.3 18.5 (1999) 10.6 (2002)	14.8 18.8 (2000) 11.0 (2004)	31.7 46.9 (2004) 21.3 (2002)	72.9 153 (2000) 38.8 (1999)	148 229 (2000) 6.75 (2002)	124 236 (1999) 26.0 (2002)	77.8 152 (1999) 17.5 (2002)	45.3 103 (1999) 7.23 (2002)	28.9 49.2 (1999) 10.2 (2002)		
STATIST	TCS		FOR 2003 C	CALENDAR	YEAR	FOR 20	04 WATER Y	'EAR	WATER	YEARS 1999	- 2004		
NNUAL M DAILY ME BEVEN-DA I PEAK FL I PEAK ST RUNOFF (A IT EXCEEI IT EXCEEI	MEAN AN AN Y MINIMUN OW 'AGE AC-FT) DS DS	M	53 37,23 13 2	1.4 1 Jun 5.7 Oct 6.7 Oct 0 0	26	2 2 34,1 1	47.0  04 Ju 5.7 Oc 6.7 Oc 93 Ju 83.99 Ju 60 19	et 26 et 21 il 17	33,	1.5 May 1.9 May 607 Jun 4.68 Jun 280 118 20	2000 2002 1, 2003 7, 3, 2002 7, 1, 2002 1, 2003 1, 2003		
	e16 e23 e21 e20 e19 e18 e17 e17 e18 e15 e15 e15 e15 e17 e17 e18 e15 e17 e18 e17 e18 e17 e18 e17 e18 e17 e18 e19 e18 e19 e19 e18 e19 e19 e18 e17 e18 e19 e18 e19 e18 e19 e18 e18 e19 e18 e18 e19 e18	e16 7.0 e23 7.0 e21 9.1 e20 7.6 e19 6.8 e18 6.1 e17 8.1 e17 7.1 e18 6.7 e15 8.5 e18 8.2 e15 7.8 e15 9.7 e13 9.4 11 8.9 10 7.3 9.5 9.7 e13 9.4 11 8.9 10 7.3 9.5 9.7 9.0 8.4 8.9 e8.9 8.1 e9.3 6.7 e9.6 7.0 e9.2 7.0 e8.6 6.9 e8.2 6.7 e11 5.7 e11 7.0 e10 7.8 e9.3 7.1 e11 7.0 e10 7.8 e9.3 7.1 e11 7.0 e17 6.7 377.1 266.5 12.2 8.88 23 17 5.7 6.1 748 529 S OF MONTHLY MEAN 16.7 13.1 25.9 16.3 (2000) (2000) 12.2 8.88 (2004) (2004) S STATISTICS OTAL MNUAL MEAN NUAL MEAN	e16 7.0 e12 e23 7.0 e12 e21 9.1 e17 e20 7.6 e19 e19 6.8 e17 e18 6.1 e12 e17 8.1 e12 e17 7.1 e12 e18 6.7 e14 e15 8.5 e13 e18 8.2 e16 e15 7.8 e13 e15 9.7 e11 11 8.9 e13 10 7.3 e8.5 9.5 9.7 e10 9.0 8.4 e14 8.9 e8.9 e16 8.1 e9.3 e16 6.7 e9.6 e17 7.0 e9.2 e9.3 7.0 e8.6 e9.0 6.9 e8.2 e9.9 6.7 e11 e15 5.7 e11 e19 7.0 e10 e18 7.8 e9.3 e14 7.1 e11 e10 7.0 e10 e18 7.8 e9.3 e14 7.1 e11 e19 5.7 6.1 8.5 6.7 e19 377.1 266.5 426.7 12.2 8.88 13.8 23 17 19 5.7 6.1 8.5 SOF MONTHLY MEAN DATA FOR SOF MONTHLY	OCT NOV DEC JAN  e16 7.0 e12 e19 e23 7.0 e12 e17 e21 9.1 e17 e14 e20 7.6 e19 e11 e19 6.8 e17 e9.0  e18 6.1 e12 e17 e17 7.1 e12 e17 e18 6.7 e14 e14 e15 8.5 e13 e15 e18 8.2 e16 e15 e15 7.8 e13 e13 e15 e15 9.7 e11 e12 e13 9.4 e11 e16 11 8.9 e13 e18  10 7.3 e8.5 e20 9.5 9.7 e10 e18 9.0 8.4 e14 e14 8.9 e8.9 e16 e15 8.1 e9.3 e16 e20 6.7 e9.6 e17 7.0 e9.2 e9.3 e9.3 7.0 e8.6 e9.0 e9.6 6.9 e8.2 e9.9 e14 6.7 e11 e15 e16 5.7 e11 e19 e13 7.0 e10 e18 e14 7.8 e9.3 e14 e16 6.7 e11 e19 e13 7.0 e10 e18 7.8 e9.3 e14 e16 6.7 e11 e19 e13 7.0 e10 e18 7.8 e9.3 e14 e16 6.7 e11 e19 e13 7.0 e10 e18 8.1 e10 e17 e18 e14 7.1 e11 e10 e14 7.2 e17 e18 e14 e15 e16 5.7 e11 e19 e13 7.0 e10 e18 e14 6.7 e11 e19 e13 7.0 e10 e18 e14 7.1 e11 e10 e14 7.2 e18 e14 6.7 e17 e18 e14 e16 6.7 e17 e18 e14 e16 e17 e18 e19 e14 e19	OCT NOV DEC JAN FEB  e16 7.0 e12 e19 e12 e23 7.0 e12 e17 e12 e21 9.1 e17 e14 e9.6 e20 7.6 e19 e11 e9.6 e19 6.8 e17 e9.0 e7.6 e18 6.1 e12 e10 e7.6 e17 8.1 e12 e17 e10 e17 7.1 e12 e17 e14 e18 6.7 e14 e14 e9.3 e15 8.5 e13 e15 e6.6 e18 8.2 e16 e15 e9.3 e15 9.7 e11 e12 e10 e13 9.4 e11 e16 e7.5 e15 9.7 e10 e18 e9.3 e16 e17 e19 e10 e17 e19 e10 e13 9.4 e11 e16 e7.5 e10 e18 e9.3 e15 e19 e19 e10 e18 e9.3 e10 e19 e10 e18 e9.3 e10 e19 e19 e11 e17 e19 e19 e11 e18 e10 e19 e19 e19 e11 e19 e13 e12 e10 e10 e18 e10 e7.0 e9.2 e9.3 e9.3 e12 e7.0 e8.6 e9.0 e9.6 e11 e7.0 e9.2 e9.3 e9.3 e12 e7.0 e8.6 e9.0 e9.6 e11 e19 e14 e15 e17 e10 e10 e18 e14 e18 e18 e19	OCT NOV DEC JAN FEB MAR  e16 7.0 e12 e19 e12 e9.3 e23 7.0 e12 e17 e12 e8.4 e21 9.1 e17 e14 e9.6 e10 e19 6.8 e17 e9.0 c7.6 e10 e18 6.1 e12 e10 c7.6 e11 e17 7.1 e12 e17 e14 e15 e18 6.7 e14 e15 e15 e6.6 e20 e18 8.2 e16 e15 e9.3 e22 e15 9.7 e11 e17 e14 e9.6 e20 e18 8.2 e16 e15 e9.3 e22 e15 9.7 e11 e12 e17 e14 e9.6 e16 e7.5 38 e17 e9.0 e7.6 e11 e17 7.1 e12 e17 e14 e9.6 e18 8.2 e16 e15 e9.3 e22 e18 8.2 e16 e15 e9.3 e22 e15 9.7 e11 e12 e10 e7.5 a8 e15 9.7 e11 e12 e10 e7.5 a8 e15 e15 e15 e16 e7.5 a8 e16 e15 e9.3 e22 e17 e19	OCT NOV DEC JAN FEB MAR APR e16 7.0 e12 e19 e12 e9.3 82 e23 7.0 e12 e17 e12 e8.4 91 e20 7.6 e19 e11 e9.6 e10 91 e20 7.6 e19 e11 e9.6 e11 86 e19 6.8 e17 e9.0 e7.6 e10 115 e18 6.1 e12 e10 e7.6 e11 118 e17 8.1 e12 e17 e14 e9.3 e17 128 e18 6.7 e14 e14 e19 e11 103 e17 7.1 e12 e17 e10 e11 103 e17 7.1 e12 e17 e14 e9.6 e11 103 e18 6.7 e14 e14 e9.3 e17 124 e18 6.7 e14 e14 e9.3 e17 124 e18 6.7 e14 e15 124 e18 6.7 e14 e14 e9.3 e17 132 e15 8.5 e13 e15 e6.6 e20 119 e18 8.2 e16 e15 e9.3 e22 98 e15 7.8 e13 e13 e8.4 e26 89 e15 9.7 e11 e12 e10 45 86 e15 9.7 e11 e12 e10 29 77 e13 9.4 e11 e16 e7.5 38 81 11 8.9 e13 e18 e10 45 86 10 7.3 e8.5 e20 e10 37 93 9.5 9.7 e10 e18 e9.3 42 103 9.5 9.7 e10 e18 e9.3 42 103 9.5 9.7 e10 e18 e9.3 42 103 9.0 8.4 e14 e14 e14 e11 48 111 8.9 e8.9 e8.9 e16 e15 e12 54 83 8.1 e9.3 e16 e20 e11 65 67 7.0 e9.2 e9.3 e16 e20 e11 86 61 6.7 e9.6 e17 e17 e14 e11 86 61 6.7 e9.6 e17 e17 e14 81 6.7 e16 e17 e17 e18 e10 41 86 61 6.9 e8.2 e9.9 e14 e15 87 47 6.7 e11 e15 e16 e15 80 44 6.7 e11 e19 e13 e12 113 39 17.0 e10 e18 e14 e14 e15 86 6.7 e11 e19 e13 e12 113 39 5.7 6.1 8.5 9.0 6.6 8.4 36 6.7 e-10 e18 e14 e-16 e12 80 54 7.8 e9.3 e14 e16 e12 80 54 7.8 e9.3 e14 e16 e12 80 54 7.9 e10 e18 e14 e 64 69 7.0 e10 e18 e14 e 64 69 7.0 e10 e18 e14 e14 e12 e10 e14 e12 e10 e15 87 7.1 266.5 426.7 454.9 317.8 1,454.7 2,489 12.2 8.88 13.8 14.7 11.0 46.9 83.0 5 OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR 16.7 13.1 15.7 14.3 14.8 31.7 72.9 25.9 16.3 21.2 18.5 18.8 46.9 153 20000 (20000 (20000 (1999) (20004) (20004) (20000) 12.2 8.88 12.1 10.6 11.0 21.3 38.8 14.7 11.0 21.3 38.8 14.7 11.0 21.3 38.8 14.7 11.0 21.3 38.8 14.7 12.2 48.9 15.4 NNUAL MEAN NNUAL	OCT   NOV   DEC   JAN   FEB   MAR   APR   MAY	OCT	WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004	OCT		

e Estimated. a Maximum gage height, 4.53 ft, Feb 23, backwater from ice.

#### 09114500 GUNNISON RIVER NEAR GUNNISON, CO

LOCATION.--Lat 38°32'31", long 106°56'57", in  $NW^{1}/_{4}NW^{1}/_{4}$  sec.2, T.49 N., R.1 W., Gunnison County, Hydrologic Unit 14020002, on right bank 0.7 mi downstream from Antelope Creek and 1.2 mi west of Gunnison.

DRAINAGE AREA.--1,012 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1910 to December 1928, October 1944 to current year. Monthly discharges only for some periods, published in WSP 1313. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09114500

REVISED RECORDS.--WSP 1313: 1911, 1916.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 7,655 ft above NGVD of 1929, from topographic map. Nov. 25, 1910 to Dec. 31, 1928, nonrecording gages (supplementary water-stage recorder Apr. 28, 1916 to June 17, 1918) at bridge about 0.6 mi downstream at various datums. April 11, 1945 to July 28, 1970, water-stage recorder at sites 0.4 mi upstream at different datum.

REMARKS.—Records good except for the periods Mar. 18-25 and Mar. 31 to June 30 which are fair, and July 1-21 and estimated daily discharges, which are poor. Flow regulated by Taylor Park Reservoir (station 09108500), 37 mi upstream from station. Diversions for irrigation of about 22,000 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND

					YEAR OC		TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	190 209 236 232 238	159 164 184 177 166	e201 e208 e203 e200 194	e186 e185 e182 e175 e168	e177 e178 e178 e178 e174	e174 e174 e177 e178 e176	427 488 500 469 544	424 388 447 597 796	1,010 1,020 1,090 1,230 1,460	837 697 627 610 592	543 536 534 516 503	347 329 323 336 345
6 7 8 9 10	268 231 221 218 214	153 166 170 168 186	191 189 193 185 166	e181 e194 e189 e184 e183	e169 e171 e177 e172 e167	e176 e178 e182 e189 e196	588 566 627 655 601	928 1,020 1,190 1,300 1,340	1,630 1,700 1,680 1,600 1,420	579 578 575 551 538	494 478 462 453 474	333 324 319 321 327
11 12 13 14 15	218 213 208 206 206	183 172 187 193 188	e170 166 163 e189 e181	e179 e180 e179 e183 e186	e173 e169 e166 e170 e176	e198 e206 e211 e227 e240	504 507 466 464 478	1,370 1,280 1,070 865 753	1,190 1,030 943 977 1,050	539 529 528 535 588	467 463 451 451 444	330 331 334 329 330
16 17 18 19 20	216 210 204 204 195	179 192 193 194 200	e174 e181 e186 e186 e188	e189 e182 e178 e183 e187	e176 e176 e179 e178 e177	e250 e261 261 258 274	505 544 562 473 428	734 788 866 1,090 1,460	1,060 1,020 1,030 975 943	645 790 956 815 779	430 427 421 450 453	329 315 313 338 387
21 22 23 24 25	178 180 181 178 176	203 209 184 e194 e205	e191 e182 e168 e173 e181	e175 e173 e176 e180 e178	e177 e177 e176 e176 e177	307 363 420 427 440	390 370 363 360 360	1,580 1,570 1,360 1,270 1,270	946 884 695 649 624	670 636 627 676 660	454 479 477 453 446	402 398 387 381 374
26 27 28 29 30 31	171 175 177 163 169 164	e200 e188 e183 e198 e199	e184 e177 e170 e173 e180 e181	e175 e179 e181 e179 e180 e178	e176 e179 e177 e175 	e473 e461 e395 e357 e353 369	342 349 414 428 476	1,240 1,270 1,350 1,500 1,350 1,140	674 674 665 657 1,010	624 644 635 604 583 561	429 399 375 378 376 372	368 361 366 370 385
TOTAL MEAN MAX MIN AC-FT	6,249 202 268 163 12,390	5,537 185 209 153 10,980	5,674 183 208 163 11,250	5,607 181 194 168 11,120	5,071 175 179 166 10,060	8,551 276 473 174 16,960	14,248 475 655 342 28,260	33,606 1,084 1,580 388 66,660	31,536 1,051 1,700 624 62,550	19,808 639 956 528 39,290	14,088 454 543 372 27,940	10,432 348 402 313 20,690
MEAN	CS OF MON 397	THLY MEAN 297	DATA FO 236	OR WATER YE 210	203 203	- 2004, BY W 251	ATER YEAF 602	1,803	2,439	1,252	727	535
MAX (WY) MIN (WY)	805 (1969) 186 (1978)	614 (1968) 162 (1964)	616 (1966) 128 (1963)	395 (1966) 119 (1945)	365 (1971) 111 (1955)	582 (1986) 117 (1964)	1,381 (1962) 214 (1964)	3,605 (1914) 283 (1977)	6,074 (1918) 425 (1977)	4,621 (1957) 288 (1977)	1,510 (1957) 261 (2002)	908 (1985) 170 (2002)
SUMMAR	Y STATIST	ICS		FOR 2003 CA	LENDAR '	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 19	911 - 2004
LOWEST A	MEAN ANNUAL M ANNUAL M	IEAN		169,852 465	Ţ		160,40 43	88	7	1,2 2	256	1995 1977
LOWEST I ANNUAL MAXIMUN MAXIMUN	M PEAK FLO M PEAK ST.	AN Y MINIMUM OW AGE		3,260 144 156	Jun Feb Feb	24		63 Nov 67 Oc 70 Jur 2.74 Jur		a11,4	80 95 00 b6.74	Jun 11, 1918 Dec 27, 1962 Dec 25, 1962 Jun 13, 1918 Jul 1, 1957
ANNUAL 10 PERCEI 50 PERCEI	RUNOFF (A NT EXCEEI NT EXCEEI NT EXCEEI	AC-FT) DS DS		336,900 1,200 211 170			318,20 1,01 33 17	0		<sup>2</sup> 3	700 840 885 80	

e Estimated.

a Site and datum then in use, from rating curve extended above 5,000 ft<sup>3</sup>/s, gage height, 4.05 ft.

b Site and datum then in use.

#### 09115500 TOMICHI CREEK AT SARGENTS, CO

 $LOCATION.--Lat~38°24'42", long~106°25'20", in~SW^{1}/_{4}SW^{1}/_{4}~sec. 21, T.48~N.,~R.5~E.,~Saguache~County,~Hydrologic~Unit~14020003, on~right~bank~300~ft~from~U.S.~Highway~50, 0.5~mi~downstream~from~Marshall~Creek,~and~0.8~mi~south~of~Sargents.$ 

DRAINAGE AREA.-- 149 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1916 to September 1922, October 1937 to September 1972, October 1992 to current year. Monthly discharge only for some periods, published in WSP 1313. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09115500

REVISED RECORDS.--WSP 1313: 1922(M). WRD Colo. 1967: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 8,416 ft above NGVD of 1929, from topographic map. May 12 to Oct. 5, 1917, nonrecording gage. Oct. 6, 1917 to Sept. 30, 1922, water-stage recorder, at railroad bridge 1,000 ft upstream at different datum. Apr. 18, 1938 to Sept. 9, 1953, water-stage recorder at present site at datum 1.0 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions for irrigation of about 1,900 acres upstream from station. Larkspur Ditch diverts water upstream from station to Arkansas River Basin.

			YEAR OCT	TOBER 2003	TO SEPTEM					
NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
20 21 23 22 21	e27 e26 e26 e26 e27	e24 e22 e18 e14 e17	e18 e19 e19 e19 e17	e18 e19 e19 e19 e19	46 48 50 46 48	79 76 76 87 103	108 103 105 108 100	51 40 35 33 31	28 30 33 30 30	18 18 18 23 26
23 e23 21 21 22	e26 e28 e26 e22 e20	e24 e26 e22 e20 e20	e16 e18 e18 e16 e18	e19 e18 e17 e17 e16	58 57 62 63 61	124 140 158 170 181	98 97 89 84 80	28 26 27 24 23	33 31 33 28 25	22 21 20 20 22
22 22 22 22 22 21	e24 e21 e21 e27 e21	e20 e19 e19 e20 e27	e16 e16 e18 e19 e18	e22 e22 e29 e27 e25	e58 e58 e56 e57 e59	182 193 156 141 133	74 70 67 61 58	22 22 29 28 30	23 22 22 22 22 23	23 23 23 21 20
21 23 e24 e26 e26	e19 e21 e22 e23 e24	e30 e25 e21 e24 e22	e18 e19 e19 e19 e18	e26 e25 e27 e31 e35	e61 e63 e62 e61 e57	126 136 135 142 152	59 58 58 54 60	29 31 35 34 45	27 26 26 27 21	19 19 19 23 27
e28 e27 e24 e29 e29	e26 e24 e22 e24 e24	e19 e18 e23 e24 e20	e17 e17 e17 e16 e17	e40 e43 e43 e44 e47	58 57 57 59 59	156 157 133 131 133	58 61 53 51 51	36 35 39 51 37	21 23 25 23 22	24 23 22 22 22
e26 e23 e29 e29 e28	e23 e19 e17 e18 e24 e25	e19 e19 e19 e19 e18 e18	e18 e18 e19 e19	e48 e49 e49 e48 e46 43	54 59 64 66 73	125 124 125 135 130 116	51 60 50 44 66	34 36 33 33 31 29	20 16 17 19 20 19	21 20 20 21 23
718 23.9 29 20 1,420 HLV MEAI	723 23.3 28 17 1,430	650 21.0 30 14 1,290 R WATER VE	516 17.8 19 16 1,020	950 30.6 49 16 1,880	1,737 57.9 73 46 3,450	4,155 134 193 76 8,240	2,136 71.2 108 44 4,240	1,017 32.8 51 22 2,020	765 24.7 33 16 1,520	643 21.4 27 18 1,280
27.8 38.1 (1997) 16.4 (2003)	23.2 39.0 (1996) 12.3 (2002)	21.4 43.2 (1996) 10.7 (1967)	21.9 49.6 (1996) 10.9 (1967)	28.3 50.3 (1972) 15.0 (1970)	66.2 139 (1962) 27.9 (2002)	195 382 (1958) 24.7 (2002)	191 588 (1957) 14.7 (2002)	62.9 255 (1957) 11.8 (2002)	38.6 128 (1957) 9.10 (2002)	29.1 59.5 (1957) 11.9 (2002)
S		FOR 2003 CA	LENDAR '	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 191	7 - 2004
W GE -FT)	I	298 e10 12 31,430 87 27	May : Feb	6	19 e1 1 21 29,17 8 22,17	0.2  May 4 Jar 7 Fet 7 May 11.98 May 10 155	1 4 2 6 7 12	44,:	18.4 338 Ju 4.8 Au 5.9 Au 964 Ju b4.03 Ju 570 150 30	1921 2002 n 18, 1995 g 18, 2002 g 13, 2002 n 18, 1995 n 18, 1995
	20 21 23 22 21 23 e23 21 21 21 22 22 22 22 22 22 21 21 23 e24 e26 e26 e26 e27 e24 e29 e29 e29 e29 e29 e29 e29 e29 e29 e29	20 e27 21 e26 23 e26 22 e26 21 e27 23 e26 21 e27 23 e28 21 e26 21 e22 22 e20 22 e20 22 e21 22 e21 22 e21 22 e21 22 e21 21 e29 21 e22 22 e21 22 e27 21 e21 21 e29 22 e24 22 e26 e23 e26 e224 e28 e26 e23 e26 e224 e28 e26 e224 e28 e26 e27 e29 e24 e29 e24 e29 e24 e29 e24 e29 e27  11 e29 e18 e28 e26 e27 e29 e17 e29 e18 e28 e26 e27 e29 e17 e29 e18 e28 e29 e29 e29 e29 e29 e30 e31 e31 e39 e33 e26 e33 e30 e27 e39 e38 e33 e39 e38 e39 e39 e38 e39 e39 e38 e39 e39 e39 e38 e39 e39 e39 e39 e38 e30 e39	NOV DEC JAN  20 e27 e24 21 e26 e22 23 e26 e18 22 e26 e14 21 e27 e17  23 e26 e24 e23 e28 e26 21 e26 e22 21 e22 e20 22 e20 e20 22 e21 e19 22 e21 e19 22 e21 e19 22 e21 e19 22 e21 e29 22 e21 e29 22 e21 e29 22 e21 e19 22 e27 e20 21 e22 e20 21 e22 e20 22 e21 e19 22 e21 e19 22 e27 e20 21 e21 e27 21 e19 e30 23 e21 e22 e26 e23 e24 e26 e23 e24 e26 e23 e24 e26 e23 e24 e26 e25 e21 e26 e25 e26 e27 e20 e27 e20 e28 e26 e19 e27 e24 e18 e24 e22 e21 e28 e26 e19 e27 e24 e18 e24 e29 e24 e20 e26 e23 e19 e29 e17 e19 e29 e18 e19 e29 e29 e24 e24 e39 e24 e20 e46 e23 e19 e29 e18 e19 e30 e29 e24 e26 e26 e23 e29 e27 e260 e27 e260 e26 e23 e19 e27 e20 e27 e20 e21 e19 e29 e18 e19 e29 e18 e19 e30 e29 e24 e40 e20 e50 e25 e28 e50 e27 e20	NOV DEC JAN FEB  20 e27 e24 e18 21 e26 e22 e19 23 e26 e18 e19 21 e27 e17 e17 23 e26 e14 e19 21 e27 e17 e17 23 e26 e22 e18 21 e26 e22 e18 21 e27 e17 e17 23 e26 e28 e26 e18 21 e22 e20 e16 22 e20 e20 e16 22 e20 e20 e18 21 e22 e20 e16 22 e21 e19 e16 22 e21 e19 e16 22 e21 e19 e16 22 e21 e19 e18 21 e21 e27 e20 e19 21 e21 e27 e20 e19 21 e21 e21 e27 e18 21 e19 e30 e18 22 e27 e20 e19 21 e21 e27 e18 21 e19 e30 e18 23 e21 e25 e19 e24 e22 e21 e19 e26 e23 e24 e19 e26 e27 e24 e18 e17 e29 e24 e22 e18 e29 e24 e24 e18 e29 e24 e20 e17 e29 e24 e24 e18 e29 e24 e20 e17 e29 e24 e24 e18 e29 e24 e20 e17 e29 e24 e24 e18 e29 e24 e29 e17 e29 e24 e24 e18 e29 e24 e29 e17 e29 e24 e24 e18 e29 e24 e20 e17 e29 e24 e24 e18 e29 e24 e20 e17 e29 e24 e24 e18 e29 e24 e24 e16 e29 e24 e29 e17 e29 e24 e24 e16 e29 e24 e29 e17 e29 e24 e24 e18 e29 e24 e24 e16 e29 e24 e29 e17 e29 e24 e24 e16 e29 e24 e29 e17 e29 e24 e24 e16 e29 e27 e24 e18 e19 e29 e18 e19 e19 e29 e29 e18 e19 e19 e29 e18 e19 e19 e29 e18 e19 e19 e29 e18 e19 e19 e29	NOV DEC JAN FEB MAR  20 e27 e24 e18 e18 21 e26 e22 e19 e19 23 e26 e18 e19 e19 21 e27 e17 e17 e17 e19 23 e26 e24 e16 e19 e23 e26 e24 e16 e19 e23 e28 e26 e18 e18 21 e26 e22 e18 e17 21 e27 e17 e17 e17 23 e28 e26 e22 e18 e17 21 e26 e22 e18 e17 22 e20 e16 e17 22 e20 e16 e17 22 e20 e16 e27 22 e20 e18 e16 222 e21 e19 e16 e22 22 e21 e19 e18 e25 22 e21 e19 e18 e25 21 e21 e27 e18 e25 21 e19 e30 e18 e25 21 e21 e27 e18 e25 e24 e22 e21 e19 e27 e26 e23 e24 e19 e31 e26 e24 e22 e18 e35 e28 e26 e19 e17 e40 e27 e24 e22 e21 e19 e27 e26 e24 e22 e18 e35 e28 e26 e19 e17 e40 e27 e24 e28 e26 e19 e17 e40 e27 e24 e29 e24 e20 e17 e47 e29 e24 e20 e17 e47 e29 e24 e20 e17 e49 e29 e24 e20 e17 e49 e29 e18 e49 e29 e17 e19 e18 e48 e29 e29 e17 e19 e18 e49 e29 e17 e19 e18 e48 e29 e29 e18 e19 e19 e18 e48 e28 e24 e19 e31 e29 e24 e20 e17 e47 e26 e23 e19 e19 e18 e48 e29 e29 e17 e19 e18 e48 e29 e29 e17 e19 e19 e18 e48 e28 e24 e18 e25 e18 e25 e18 43  718 723 650 516 950  HLY MEAN DATA FOR WATER YEARS 1917 - 2004, BY W 27.8 23.9 23.3 21.0 17.8 30.6 e29 28 30 19 49 e10 17.8 94.6 50.3 e10 17.1 14 16 16 e10 17.2 19.9 15.0 e10 17.8 30.6 e29 28 May 29 e10 17 1996 (1996) (1996) (1997) e10 15.0 e10 Feb 6 e10 Feb 5	NOV DEC JAN FEB MAR APR  20 e27 e24 e18 e19 e19 48 21 e26 e22 e19 e19 48 22 e26 e18 e19 e19 50 21 e27 e17 e17 e17 e19 48 23 e26 e24 e16 e19 58 24 e26 e22 e18 e17 62 21 e27 e17 e17 e17 e19 48 23 e26 e24 e16 e19 58 21 e26 e22 e18 e17 62 21 e27 e17 e17 e17 e19 48 23 e26 e24 e16 e19 58 21 e26 e22 e18 e17 62 22 e20 e20 e18 e16 61 21 e22 e20 e16 e17 63 22 e20 e20 e18 e16 61 22 e24 e20 e16 e22 e58 22 e21 e19 e18 e29 e56 22 e21 e19 e18 e29 e56 22 e21 e19 e18 e29 e56 22 e27 e20 e19 e27 e57 21 e21 e27 e20 e19 e27 e57 21 e21 e22 e24 e29 e19 e27 e57 21 e21 e21 e27 e20 e19 e27 e57 21 e21 e22 e24 e29 e19 e27 e57 21 e21 e27 e20 e19 e27 e57 21 e21 e27 e20 e19 e27 e57 21 e21 e27 e20 e19 e27 e57 21 e21 e25 e19 e25 e63 22 e24 e29 e24 e19 e31 e61 23 e21 e25 e19 e25 e63 24 e22 e21 e19 e18 e25 e59 262 e24 e22 e21 e19 e31 e61 262 e24 e22 e21 e19 e31 e61 262 e24 e22 e21 e19 e31 e61 262 e24 e22 e18 e35 e57 262 e28 e26 e19 e17 e40 58 27 e29 e24 e24 e16 e44 59 29 e24 e24 e16 e44 59 29 e24 e24 e26 e16 e44 59 29 e24 e24 e26 e17 e47 59 29 e24 e20 e17 e47 59 29 e28 30 19 e49 64 29 e17 e19 e19 e18 e48 54 29 e29 e17 e19 e19 e18 e48 66 29 e29 e17 e19 e19 e18 e48 66 29 e29 e18 e19 e19 e18 e48 66 29 e29 e18 e19 e19 e18 e48 66 20 e28 e24 e18 e46 73 29 e28 30 19 e49 64 29 e17 e19 e19 e19 e49 64 29 e18 e19 e19 e18 e48 66 20 e28 e24 e18 e46 73 29 28 30 19 49 73 20 17 14 16 16 16 46 20 1,430 1,290 1,020 1,880 3,450 29 e28 30 19 49 73 20 17 14 16 16 16 46 21 12.3 10.7 10.9 15.0 27.9 29 28 30 19 49 73 20 17 14 16 16 16 46 21 12.3 10.7 10.9 15.0 27.9 29 28 30 19 49 73 20 17 14 16 16 16 46 21 12.3 10.7 10.9 15.0 27.9 20 17 14 16 16 16 46 21 12.3 10.7 10.9 15.0 27.9 21 12 12 12 12 12 12 12 12 12 12 12 12 1	NOV DEC JAN FEB MAR APR MAY  20 e27 e24 e18 e18 e18 46 79 21 e26 e22 e19 e19 48 76 22 e26 e14 e19 e19 50 76 22 e26 e14 e19 e19 48 103 23 e26 e14 e19 e19 48 103 23 e26 e24 e16 e19 e19 58 124 e23 e28 e26 e18 e18 e17 62 158 21 e27 e17 e17 e17 e19 48 103 23 e26 e22 e18 e16 e19 58 124 e23 e28 e26 e18 e18 57 140 21 e26 e22 e18 e17 62 158 21 e26 e22 e18 e16 61 181 22 e20 e20 e16 e17 63 170 22 e20 e20 e16 e17 63 170 22 e20 e20 e16 e17 63 170 22 e21 e19 e16 e22 e58 193 22 e21 e19 e16 e22 e58 193 22 e21 e19 e16 e22 e58 193 21 e21 e22 e20 e19 e27 e57 141 22 e27 e20 e19 e27 e57 141 21 e21 e27 e18 e25 e59 133 21 e19 e30 e18 e26 e61 126 23 e21 e25 e19 e25 e63 136 e24 e22 e21 e19 e19 e27 e62 135 e26 e23 e24 e19 e27 e62 135 e26 e24 e22 e18 e19 e31 e61 142 e26 e24 e22 e18 e19 e31 e61 142 e26 e24 e22 e18 e35 e57 152 e28 e26 e19 e17 e40 58 156 e27 e24 e18 e17 e43 57 157 e28 e26 e29 e24 e20 e17 e43 57 133 e29 e24 e22 e23 e17 e43 57 133 e29 e24 e22 e23 e17 e43 57 133 e29 e24 e22 e23 e17 e43 57 133 e29 e24 e20 e17 e43 57 133 e29 e24 e20 e17 e47 59 133 e29 e24 e20 e17 e49 64 125 e29 e18 e19 e19 e48 66 135 e29 e18 e19 e19 e48 66 135 e29 e17 e19 e19 e49 64 125 e29 e18 e19 e19 e48 66 135 e29 e24 e18 e19 e19 e48 66 135 e29 e24 e18 e19 e19 e48 66 135 e29 e18 e19 e19 e48 66 135 e29 e18 e19 e19 e18 e48 54 125 e29 e18 e19 e19 e18 e48 54 125 e29 e18 e19 e19 e18 e49 69 124 e29 e17 e19 e19 e49 64 125 e29 e18 e19 e19 e18 e49 69 125 e28 e24 e18 e19 e19 e18 e49 69 125 e28 e24 e18 e19 e19 e18 e49 69 125 e28 e24 e18 e19 e19 e19 e49 64 125 e29 e18 e19 e19 e18 e49 69 125 e28 e24 e18 e19 e19 e19 e49 64 125 e29 e18 e19 e19 e19 e18 e49 69 129 e29 e19 e18 e49 69 129 e18 e49 69 129 e29 e19 e19 e18 e49 69 129 e18 e49 69 129 e18 e49 69 129 e18 e49 69 129 e49 69	NOV DEC JAN FEB MAR APR MAY JUN  20 e27 e24 e18 e18 46 79 108  21 e26 e22 e19 e19 50 76 105  22 e26 e14 e19 e19 50 76 105  22 e26 e14 e19 e19 50 76 105  22 e26 e14 e19 e19 58 124 98  23 e26 e24 e16 e19 e19 58 124 98  23 e26 e24 e16 e17 63 170 84  22 e20 e20 e18 e17 62 158 89  21 e22 e20 e18 e17 63 170 84  22 e20 e20 e18 e17 63 170 84  22 e20 e20 e18 e16 61 181 80  22 e21 e20 e16 e17 63 170 84  22 e22 e20 e20 e18 e16 66 61 181 80  22 e21 e19 e18 e22 e58 182 74  22 e21 e19 e16 e22 e58 183 70  22 e21 e19 e18 e22 e58 193 70  22 e21 e19 e18 e22 e56 156 67  21 e21 e27 e18 e22 e57 141 66  21 e21 e27 e18 e25 e59 133 58  23 e26 e24 e19 e27 e57 141 66  21 e21 e27 e18 e25 e59 133 58  23 e26 e24 e19 e27 e57 141 66  24 e22 e21 e19 e18 e25 e69 136 58  25 e26 e24 e22 e18 e35 57 152 60  26 e28 e26 e19 e17 e40 58 156 58  26 e26 e23 e24 e19 e31 e61 142 54  26 e26 e23 e24 e19 e31 e61 142 54  26 e26 e24 e24 e16 e44 59 131 51  27 e27 e24 e18 e17 e43 57 133 53  28 e26 e26 e23 e19 e17 e40 58 156 58  2626 e23 e24 e19 e31 e61 e14 54  2626 e24 e22 e18 e17 e43 57 157 61  27 e27 e24 e18 e17 e43 57 157 61  28 e29 e24 e24 e16 e44 59 131 51  29 e29 e24 e24 e16 e47 59 133 51  20 e29 e24 e24 e16 e47 59 131 51  20 e29 e24 e24 e16 e47 59 131 51  21 e20 e17 e19 e18 e48 54 125 51  23 e19 e19 e19 e48 66 125 50  23 e19 e19 e19 e48 66 125 50  24 e29 e24 e24 e16 e44 59 131 51  25 e29 e24 e24 e16 e44 67 73 130 66  26 e28 e26 e23 e19 e19 e48 66 125 50  27 e29 e18 e19 e19 e48 66 125 50  28 e24 e25 e19 e49 e79 e79 133 51  29 28 30 19 49 73 193 108  20 17 14 16 16 64 73 190 66  20 e18 e19 e19 e48 66 125 50  21 e29 e24 e24 e16 e44 59 131 51  21 e20 17 14 16 16 64 73 130 66  223 e19 e19 e19 e48 66 135 44  43A  41AO  AN  AN  AN  AN  AN  AN  AN  AN  AN	NOV DEC JAN FEB MAR APR MAY JUN JUL  20 e27 e24 e18 e18 46 79 108 51 21 e26 e22 e19 e19 e19 50 76 105 35 22 e26 e18 e19 e19 50 76 105 33 21 e27 e17 e17 e19 48 103 100 31 23 e26 e28 e24 e16 e18 57 140 97 26 24 e23 e20 e18 e19 58 124 98 89 25 e23 e26 e18 e19 e19 58 124 98 82 26 e23 e24 e16 e18 e18 57 140 97 26 21 e26 e22 e18 e17 62 158 89 27 21 e22 e20 e16 e17 63 170 84 24 22 e20 e20 e16 e17 63 170 84 24 22 e20 e20 e16 e17 63 170 84 24 22 e20 e20 e16 e17 63 170 84 24 22 e20 e20 e16 e17 63 170 84 24 22 e20 e20 e16 e17 63 170 84 24 22 e20 e20 e18 e16 67 63 170 84 24 22 e21 e19 e18 e25 e58 182 74 22 22 e21 e19 e18 e25 e58 183 70 22 21 e27 e20 e18 e25 e58 183 70 22 22 e21 e19 e18 e25 e59 133 58 30 21 e17 e27 e20 e18 e25 e59 133 58 30 21 e27 e20 e18 e25 e59 133 58 30 21 e27 e28 e24 e19 e19 e25 e63 136 58 31 21 e29 e24 e20 e16 e44 e49 e25 e65 e63 136 58 31 22 e27 e20 e19 e25 e69 e33 135 58 30 21 e27 e28 e29 e18 e25 e63 136 58 31 22 e24 e22 e21 e19 e88 e25 e63 136 58 31 23 e21 e25 e19 e25 e63 135 58 35 24 e26 e24 e22 e18 e35 e57 152 60 45 2626 e23 e24 e19 e31 e61 142 54 34 2626 e24 e22 e18 e35 e57 152 60 45 2627 e24 e18 e17 e43 57 157 61 35 2629 e24 e24 e19 e31 e61 142 54 34 2626 e23 e24 e19 e31 e61 142 54 34 2626 e23 e24 e19 e31 e61 142 54 34 2626 e23 e24 e19 e31 e61 142 55 13 34 2629 e24 e24 e18 e77 e43 57 157 61 35 2629 e24 e24 e18 e77 e43 57 157 61 35 2629 e24 e24 e18 e77 e43 57 157 61 35 2629 e24 e24 e18 e77 e43 57 157 61 35 27 e29 e24 e20 e17 e19 e19 e48 66 135 44 33 28 e29 e24 e24 e18 e77 e43 57 133 53 39 29 23 3 21 0 17 8 30 65 77 124 71 13 15 15 20 17 e19 e19 e18 e48 66 135 44 33 20 17 e19 e19 e18 e48 54 125 51 34 20 17 e19 e19 e18 e49 64 125 50 33 20 23 23 33 10 17 8 30 65 77 124 71 12 328 20 17 e19 e19 e18 e49 64 125 50 33 20 23 23 3 210 17 8 30 65 77 124 71 14 71 12 328 20 21 70 17 14 6 40 58 159 124 60 35 20 21 70 19 618 64 67 73 130 66 31 20 21 71 4 6 40 73 130 66 31 20 21 71 4 60 70 70 70 70 70 70 70 70 70 70 70 70 70	NOV   DEC   JAN   FEB   MAR   APR   MAY   JUN   JUL   AUG

e Estimated.

a Maximum gage height, 2.02 ft, Jan 6, backwater from ice.

b Maximum gage height for period of record, 4.05 ft, Jun 16, 1917, and Jun 9, 1921, site and datum then in use.

# 09118450 COCHETOPA CREEK BELOW ROCK CREEK, NEAR PARLIN, CO

 $LOCATION.--Lat~38^{\circ}20'08", long~106^{\circ}46'18", in~SW^{1}/_{4}NE^{1}/_{4}~sec.17, T.47~N., R.2~E.~Saguache~County, \\ Hydrologic~Unit~14020003, on~left~bank~0.75~mi~downstream~from~Rock~Creek~and~12~mi~south~of~Parlin.$ 

DRAINAGE AREA.--334 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1981 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=09118450

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 8,470 ft above NGVD of 1929, from topographic map.

REMARKS.—Records good except for estimated daily discharges, which are poor. Diversions for irrigation of hay meadows upstream from station. Transmountain diversion by Tarbell Ditch exports water upstream from station to Saguache Creek, since 1913.

divers	ion by Tarbe	ll Ditch expor	ts water upstr	eam from sta	tion to Sagua	cne Creek, sin	ce 1913.							
	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	14 16 18 19 19	e15 e15 e16 e15 e15	e16 e15 e13 e14 e15	e9.5 e11 e11 e10 e10	e15 e14 e14 e15 e15	e17 e17 e18 e18 e18	24 23 22 20 23	26 24 25 29 37	39 38 39 41 45	37 28 24 24 22	24 23 22 21 23	21 21 21 24 31		
6 7 8 9 10	17 17 17 16 16	e15 e16 e15 e16 e16	e15 e16 e15 e13 e13	e11 e11 e10 e12 e13	e14 e15 e14 e14 e15	e17 e18 e18 e18 e18	23 20 23 22 20	41 48 54 57 57	43 35 28 40 39	20 18 17 17 16	27 24 24 22 21	28 26 25 24 25		
11 12 13 14 15	16 15 15 14 15	e17 e16 e16 e15 e15	e12 e13 e13 e13 e13	e14 e14 e14 e14 e13	e16 e14 e14 e14 e15	e20 e22 e26 e30 e32	20 21 18 17 17	58 61 61 51 46	37 36 34 31 32	15 14 13 11 18	20 19 18 18 20	26 25 24 22 19		
16 17 18 19 20	15 15 15 15 15	e16 e15 e15 e16 e15	e15 e18 e17 e16 e14	e12 e11 e11 e11 e12	e13 e13 e15 e15 e17	e40 e42 e44 e50 e47	16 16 16 17 16	44 45 48 48 27	34 29 30 29 28	26 28 40 53 46	28 26 27 31 35	17 17 17 19 28		
21 22 23 24 25	15 15 15 15 15	e16 e12 e14 e15 e13	e14 e13 e16 e18 e13	e12 e13 e13 e13 e13	e17 e17 e16 e16 e16	e50 e50 49 46 43	16 18 21 22 27	29 33 35 34 35	26 25 25 22 21	42 38 41 46 36	30 31 32 27 25	33 29 27 26 21		
26 27 28 29 30 31	15 15 e14 e14 e14 e14	e14 e12 e13 e14 e17	e13 e10 e11 e12 e10 e9.8	e14 e15 e15 e15 e15 e15	e17 e17 e17 e17	43 42 29 27 27 28	26 22 21 21 24	33 32 37 45 51 44	21 26 28 28 65	32 33 34 32 28 25	23 22 23 23 22 22	20 19 19 21 22		
TOTAL MEAN MAX MIN AC-FT	480 15.5 19 14 952	450 15.0 17 12 893	428.8 13.8 18 9.8 851	387.5 12.5 15 9.5 769	441 15.2 17 13 875	964 31.1 50 17 1,910	612 20.4 27 16 1,210	1,295 41.8 61 24 2,570	994 33.1 65 21 1,970	874 28.2 53 11 1,730	753 24.3 35 18 1,490	697 23.2 33 17 1,380		
			AN DATA FO 21.9					, ,	00.2	40.0	ć0.7	44.0		
MEAN MAX (WY) MIN (WY)	MAX 72.6 49.9 3 (WY) (1983) (1983) (19 MIN 15.5 15.0			18.9 36.6 (1984) 7.87 (2003)	19.4 33.4 (1986) 9.37 (2003)	31.4 52.3 (1985) 12.5 (1982)	51.0 135 (1987) 20.4 (2004)	80.9 413 (1984) 13.2 (2002)	80.3 240 (1984) 8.66 (2002)	48.2 130 (1995) 7.63 (2002)	60.5 153 (1999) 10.9 (2002)	44.3 90.8 (1982) 14.7 (1996)		
SUMMA	RY STATIST	ΓICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 1982	2 - 2004		
ANNUAI HIGHEST LOWEST HIGHEST LOWEST ANNUAI MAXIMU ANNUAI 10 PERCO	SUMMARY STATISTICS ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			12,420 22 11:420	7.1 9 Sep 6.0 Jan 6.6 Jan	12	16,6	e9.5 Jai 10 Dec 89 Jui a2.46 Jui	n 30 n 1 c 30 n 30 n 30	1,1 31,4	4.0 Ju 5.4 Ju 20 Ma b4.49 Ma	1984 2002 y 23, 1984 il 31, 2002 il 27, 2002 y 23, 1984 y 23, 1984		

<sup>e Estimated.
a Maximum gage height, 3.17 ft, Mar 16, backwater from ice.
b Maximum gage height, 5.64 ft, Mar 25, 1998, backwater from ice.</sup> 

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#### 09119000 TOMICHI CREEK AT GUNNISON, CO

 $LOCATION.--Lat~38°31'18", long~106°56'25", in~NE^{1}_{4}SW^{1}_{4}~sec. 11, T.49~N., R.1~W., Gunnison~County, Hydrologic~Unit~14020003, on~right~bank~300~ft~downstream~from~highway~bridge,~1.8~mi~southwest~of~Post~Office~in~Gunnison,~and~2.0~mi~upstream~from~mouth.$ 

DRAINAGE AREA.--1,061 mi<sup>2</sup>.

PERIOD OF RECORD.--November and December 1910 (gage heights and discharge measurements only), October 1937 to current year. Monthly discharges only for some periods, published in WSP 1313. Published as "near Gunnison" 1910. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09119000

REVISED RECORDS.--WSP 2124: Drainage area. WDR CO-86-2: 1985.

GAGE.--Water-stage recorder with satellite telemetry, and crest-stage gage. Datum of gage is 7,628.58 ft above NGVD of 1929. Nov. 25 to Dec. 24, 1910, nonrecording gage 300 ft upstream at different datum. Apr. 20, 1938 to Oct. 2, 1940, water-stage recorder at present site at datum 1.00 ft higher.

REMARKS.—Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 24,000 acres upstream from station. Water diverted upstream from station by Larkspur Ditch to Arkansas River Basin since 1935 and by Tarbell Ditch to Rio Grande Basin since 1914.

					R YEAR OC		ET PER SECO TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	40 50 58 66 66	63 66 71 71 69	e72 e70 e65 e66 e65	e66 e67 e68 e68 e66	e67 e67 e68 e62 e65	e65 e64 e61 e64 e60	135 132 132 127 143	113 122 112 95 99	224 205 180 176 176	241 152 114 103 97	111 102 101 99 109	55 55 52 50 52
6 7 8 9 10	65 69 67 66 63	69 79 94 98 101	e67 e67 e69 e67 e66	e69 e63 e64 e64 e68	e62 e64 e61 e64 e65	e58 e58 e69 e74 e78	138 125 123 133 155	114 154 208 264 290	176 173 168 163 155	95 93 83 75 55	116 124 111 106 97	59 58 53 58 57
11 12 13 14 15	67 65 62 56 52	110 101 101 109 100	e74 e71 e73 e70 e73	e67 e68 e69 e70 e68	e64 e66 e66 e66	e87 e90 e110 e111 118	152 152 149 135 124	314 342 364 338 260	156 158 141 122 99	45 45 51 53 45	87 82 74 77 81	57 55 53 44 36
16 17 18 19 20	58 60 55 56 60	89 88 77 70 e71	e71 e77 e75 e75 e75	e65 e65 e66 e65 e64	e65 e65 e66 e69 e66	139 154 198 241 318	115 109 104 108 107	194 167 145 169 187	101 98 98 67 61	40 49 93 115 106	83 92 95 96 103	45 34 35 34 41
21 22 23 24 25	57 57 58 58 57	e71 e71 e67 e72 e70	e73 e61 e66 e71 e68	e67 e65 e67 e69 e65	e68 e69 e70 e70 e72	329 297 289 263 237	114 113 120 126 126	189 206 208 224 234	60 68 67 61 59	99 93 107 135 135	105 93 91 87 80	37 45 41 38 36
26 27 28 29 30 31	57 59 66 69 65 63	e70 e67 e67 e65 e68	e68 e67 e64 e68 e66 e65	e63 e65 e67 e64 e64 e63	e74 e72 e72 e66 	218 206 184 148 137 133	121 118 103 104 103	217 220 215 220 247 252	64 74 82 93 185	118 114 130 173 149 133	75 66 47 57 68 58	34 33 30 38 44
TOTAL MEAN MAX MIN AC-FT	1,867 60.2 69 40 3,700	2,385 79.5 110 63 4,730	2,145 69.2 77 61 4,250	2,049 66.1 70 63 4,060	1,937 66.8 74 61 3,840	4,658 150 329 58 9,240	3,746 125 155 103 7,430	6,483 209 364 95 12,860	3,710 124 224 59 7,360	3,136 101 241 40 6,220	2,773 89.5 124 47 5,500	1,359 45.3 59 30 2,700
MEAN MAX (WY) MIN (WY)	93.6 209 (1970) 33.5 (1964)	101 158 (1971) 62.4 (1951)	76.7 76.7 117 (1987) 45.8 (1964)	67.2 116 (1971) 37.1 (1979)	69.6 98.0 (1986) 36.2 (1979)	- 2004, BY W 112 279 (1939) 59.8 (1981)	234 564 (1942) 56.5 (1967)	390 2,073 (1984) 10.1 (2002)	456 1,481 (1984) 24.7 (2002)	189 859 (1957) 26.8 (2002)	158 440 (1957) 25.6 (2002)	92.5 318 (1970) 19.2 (1956)
SUMMAI	RY STATIST	TICS		FOR 2003 C	ALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 193	38 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCI 50 PERCI	L MEAN Γ ANNUAL N Γ ANNUAL N Γ DAILY ME Γ DAILY ME	MEAN AN AN Y MINIMUM OW 'AGE AC-FT) DS DS	νί	565	i.8 May i.4 Apr i.7 May	23	36 38 71,90	99.0  54 May  50 Sep  56 Sep  51 May  52.52 May	28 23 y 13	4,0 4,0 123,0	2.6 S e4.5 M 520 M 5.49 M	1984 2002 ay 26, 1984 ep 30, 1977 ay 5, 2002 ay 23, 1984 ay 23, 1984

e Estimated.

a Maximum gage height, 3.54 ft, Feb 26, backwater from ice.

# 09124500 LAKE FORK AT GATEVIEW, CO

LOCATION.--Lat 38°17′56", long 107°13′46", in SE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.29, T.47 N., R.3 W., Gunnison County, Hydrologic Unit 14020002, on left bank at old village of Gateview, 25 ft downstream from private bridge, 0.2 mi upstream from Indian Creek, and 6.3 mi upstream from waterline of Blue Mesa Reservoir, at elevation 7,519 ft.

DRAINAGE AREA.--334 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1937 to current year. Monthly discharge only for some periods, published in WSP 1313. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09124500

REVISED RECORDS .-- WSP 2124: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Datum of gage is 7,827.66 ft above NGVD of 1929. Prior to Oct. 1, 1938, at datum 2.00 ft higher, Oct. 1, 1938 to Sept. 30, 1945, at datum 1.00 ft higher, and Oct. 1, 1945 to Sept. 3, 1991, at datum 1.00 ft higher.

DISCUARCE CURIC EEET DED SECOND

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 1,600 acres upstream from station.

			YEAR OC	TOBER 2003	TO SEPTEM					
CT NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
22 50 28 55 40 61 34 53 30 45	e60 e58 e54 e57 e57	e51 e49 e53 e55 e51	e43 e41 e40 e43 e41	e44 e43 e48 e44 e43	201 162 147 138 140	141 138 150 194 280	567 635 828 951 973	377 368 343 320 301	159 155 149 141 134	52 50 48 73 99
25 52 19 60 14 62 11 60 12 61	e57 e57 e59 e58 e55	e55 e51 e47 e51 e49	e47 e46 e46 e44 e43	e46 e46 e56 e59 e71	170 154 147 149 142	386 489 564 634 716	1,080 1,180 1,200 1,100 998	295 290 279 268 258	136 129 122 114 105	86 80 76 76 75
09 57 05 56 01 60 92 57 91 49	e54 e57 e57 e53 e55	e51 e53 e51 e49 e47	e46 e41 e44 e46 e46	e84 e90 e100 e98 e98	136 127 119 119 114	769 666 527 422 355	779 675 598 688 737	252 243 237 232 223	104 97 92 87 80	84 82 80 75 71
85 48 83 57 80 55 78 56 77 e58	e51 e59 e57 e55 e57	e51 e51 e47 e51 e44	e40 e43 e43 e43 e43	e95 e90 e114 e130 e148	117 121 132 130 127	352 446 528 701 854	682 669 594 597 596	232 244 277 265 267	80 82 77 76 74	70 68 65 76 157
77 e58 74 55 74 50 73 e57 71 e56	e57 e55 e53 e62 e53	e47 e49 e51 e50 e44	e44 e43 e43 e44 e44	e162 e156 e138 e108 115	125 122 124 116 115	862 831 739 708 694	504 354 384 418 436	256 241 234 261 243	73 77 74 67 64	206 193 179 168 161
62 e57 69 e57 68 e57 66 e53 61 e57 	e59 e51 e53 e59 e53 e51	e44 e48 e44 e44 e43 e43	e44 e44 e46 e46	119 122 113 103 106 112	111 116 128 140 147	715 756 877 1,040 802 623	412 399 380 382 392	226 213 204 186 175 168	63 60 61 58 56 54	151 142 136 137 140
40 62 55 45 20 3,310	62 51 3,440	1,514 48.8 55 43 3,000	1,267 43.7 47 40 2,510	2,901 93.6 162 43 5,750	4,036 135 201 111 8,010	17,959 579 1,040 138 35,620	20,188 673 1,200 354 40,040	7,978 257 377 168 15,820	2,900 93.5 159 54 5,750	3,156 105 206 48 6,260
95.2 68.1 42 143 942) (1942) 40.3 42.7	52.1 75.7 (1984) 32.9 (2002)	46.2 66.5 (1984) 29.9 (2002)	43.8 71.0 (1986) 30.4 (1990)	56.6 102 (1939) 30.5 (1977)	131 340 (1952) 53.3 (1990)	537 1,153 (1984) 205 (1977)	962 1,586 (1944) 176 (2002)	470 1,266 (1957) 63.2 (2002)	205 480 (1999) 48.1 (2002)	131 430 (1970) 45.5 (1956)
ATISTICS		FOR 2003 CA	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 193	38 - 2004
AK FLOW AK STAGE OFF (AC-FT) XCEEDS XCEEDS	UM	61,720 169 1,480 28 34 122,400 409 73	Apr	8	1,20 e4 4 1,32 135,20 57	36 Jun 40 Feb 42 Jan 40 Jun 3.65 Jun 55	3 30 8	2,4 e,e 2,7 169,2	79.8 10 J 10 J 121 J 23 J 120 J 14.18 J 16.00 17.4 85	1984 2002 un 29, 1957 an 3, 2002 an 19, 1976 ul 10, 1983 ful 10, 1983
	22 50 28 55 40 61 34 53 30 45 25 52 19 60 14 62 11 60 12 61 10 57 05 56 01 60 02 57 01 49 85 48 83 57 80 55 77 e58 77 e58 77 e58 77 e58 77 e57 71 e56 62 e57 74 50 73 e57 71 e56 62 e57 64 50 652 e57 65 e53 61 e57 65 e53 65 e53 65 e57 65 e53	22	CT NOV DEC JAN  22 50 e60 e51 28 55 e58 e49 40 61 e54 e53 34 53 e57 e55 30 45 e57 e51 25 52 e57 e55 19 60 e57 e51 14 62 e59 e47 11 60 e58 e51 12 61 e55 e49 20 57 e54 e51 20 57 e53 e49 20 57 e53 e49 20 1 49 e55 e47 21 49 e55 e47 22 57 e58 e57 e51 23 e57 e53 e49 24 e51 e51 25 52 e57 e53 e49 26 e57 e53 e49 27 e58 e57 e47 28 56 e55 e51 28 e57 e44 27 e58 e57 e44 27 e58 e57 e44 27 e58 e57 e44 27 e58 e57 e44 28 e51 28 e57 e53 e44 29 e55 e49 20 e57 e51 e48 20 e57 e51 21 e48 22 e57 e59 e44 23 e57 e59 e44 24 e56 e53 e51 25 e57 e47 268 e57 e49 27 e58 e57 e44 28 e57 e59 e44 29 e57 e51 e48 29 e57 e51 e48 29 e57 e59 e44 20 e57 e51 e48 20 e57 e53 e44 21 e48 22 e57 e59 e44 24 e48 25 e57 e59 e44 26 e53 e59 e44 26 e53 e59 e44 27 e58 e57 e53 e49 28 e57 e53 e49 29 e57 e51 e48 29 e57 e51 e48 20 e57 e53 e49 20 e57 e51 e48 20 e57 e53 e44 21 e48 22 e57 e59 e44 24 e55 e55 e49 255 e57 e59 e44 26 e53 e59 e44 26 e53 e59 e44 27 e58 e57 e59 e44 28 e57 e53 e49 29 e57 e51 e48 20 e57 e53 e49 20 e57 e51 e48 20 e57 e53 e49 20 e57 e51 e48 20 e57 e53 e44 20 e57 e57 e57 20 e57	CT NOV DEC JAN FEB  22 50 e60 e51 e43 28 55 e58 e49 e41 40 61 e54 e53 e40 34 53 e57 e55 e43 30 45 e57 e55 e47 29 60 e57 e51 e41 20 60 e57 e51 e46 41 62 e59 e47 e46 41 62 e59 e47 e46 41 e55 e49 e43 42 e11 60 e58 e51 e44 43 e21 e49 e53 e40 44 e52 e59 e47 e46 452 e57 e55 e49 e43 46 e57 e51 e46 47 e58 e57 e51 e46 48 e51 e51 e40 88 55 e57 e51 e47 88 56 e55 e57 e47 88 56 e55 e51 e43 89 e54 e44 e44 89 e57 e58 e57 e44 e44 89 e55 e55 e49 e43 89 e57 e51 e44 89 e57 e51 e43 80 e53 e51 e43 80 e57 e51 e48 e44 80 e51 e51 e40 80 e57 e51 e48 80 e51 e50 e50 80 e57 e51 e48 80 e51 e50 e50 80 e57 e51 e48 80 e50 e57 e51 e48 80 e57 e51 e48 80 e50 e50 e50 e50 80 e50 e50 e50 e50 e50 e50 e50 e50 e50 e5	### WATER YEAR OCTOBER 2003 DAILY MEAN V  CT NOV DEC JAN FEB MAR  22 50 e60 e51 e43 e44 44 e44 e160 28 55 e58 e49 e41 e43 e44 40 61 e54 e53 e40 e48 34 53 e57 e55 e43 e40 e48 30 45 e57 e51 e41 e43 30 45 e57 e51 e41 e43 25 52 e57 e55 e47 e46 46 e56 414 62 e59 e47 e46 e56 414 62 e59 e47 e46 e56 411 60 e58 e51 e44 e59 412 61 e55 e49 e43 e71 409 57 e54 e51 e44 e59 410 60 e57 e53 e41 e90 411 60 e55 e49 e43 e71 411 e43 411 e90 411 e44 e59 412 e61 e55 e49 e43 e71 414 e100 415 e55 e49 e44 e46 e98 416 e98 417 e46 e98 418 e51 e51 e44 e59 419 e46 e98 419 e44 e100 419 e55 e47 e44 e43 e148 411 e90 411 e56 e55 e51 e43 e114 41 e160 e55 e57 e47 e43 e114 41 e160 e55 e57 e47 e44 e43 e148 41 e90 41 e59 e57 e51 e43 e138 41 e90 41 e162 e55 e55 e49 e44 e44 e160 41 e56 e55 e51 e44 e44 e160 41 e56 e53 e51 e43 e138 41 e90 41 e56 e53 e51 e43 e138 41 e90 41 e162 e56 e53 e51 e43 e138 41 e90 41 e162 e56 e55 e51 e44 e44 e160 41 e56 e53 e51 e43 e138 41 e90 41 e162 e57 e58 e57 e47 e44 e162 41 e50 e53 e51 e43 e138 41 e90 41 e162 e57 e58 e57 e47 e44 e44 e162 41 e56 e53 e51 e43 e138 41 e90 41 e168 e57 e53 e44 e46 e103 41 e56 e53 e59 e44 e46 e103 41 e56 e53 e59 e44 e46 e103 41 e57 e58 e57 e59 e44 e46 e103 41 e57 e58 e57 e59 e44 e46 e103 41 e57 e58 e57 e59 e44 e46 e103 42 e17 e56 e53 e59 e44 e46 e103 43 e57 e62 e50 e44 e46 e103 44 e56 e57 e59 e44 e46 e103 45 e57 e59 e51 e43 e114 462 e57 e59 e51 e43 e148 47 e56 e53 e59 e44 e46 e108 48 e57 e53 e49 e46 e98 49 e56 e57 e59 e44 e46 e108 40 e56 e57 e59	WATER YEAR OCTOBER 2003 TO SEPTEM DAILY MEAN VALUES  CT NOV DEC JAN FEB MAR APR  22 50 660 e51 e43 e44 201  28 55 e58 e49 e41 e43 162  28 655 e58 e49 e41 e43 140  30 45 e57 e55 e43 e44 138  30 45 e57 e55 e47 e46 170  25 52 e57 e55 e47 e46 e56 147  11 60 e58 e51 e44 e59 149  112 61 e55 e49 e43 e71 e46  114 62 e59 e47 e46 e56 147  111 60 e58 e51 e44 e59 149  109 57 e54 e51 e46 e84 136  105 56 e57 e53 e49 e43 e71 142  109 57 e54 e51 e46 e84 136  105 56 e57 e53 e49 e43 e71 142  109 57 e54 e51 e46 e88 119  109 57 e54 e51 e46 e88 119  101 60 e57 e53 e49 e46 e98 119  102 e57 e53 e49 e46 e98 119  101 49 e55 e47 e46 e98 114  105 55 e57 e57 e57 e47 e46 e98 114  105 55 e57 e57 e47 e46 e98 114  105 55 e57 e59 e51 e43 e10 e90 127  107 e58 e57 e47 e46 e98 114  108 55 e55 e57 e47 e46 e98 114  108 55 e57 e59 e51 e43 e10 e90 121  109 57 e58 e57 e47 e46 e98 114  107 e58 e57 e51 e44 e100 119  107 e58 e57 e47 e46 e98 114  108 55 e55 e57 e47 e43 e114 132  107 e58 e57 e47 e44 e162 125  107 e58 e57 e47 e44 e162 125  107 e58 e57 e51 e43 e130 130  108 e57 e51 e44 e108 116  107 e58 e57 e51 e44 e108 116  107 e58 e57 e51 e44 e108 116  108 e57 e51 e44 e44 e108 116  109 e57 e51 e44 e44 e16  109 e57 e51 e44 e44 e17  109 e57 e58 e57 e59 e44 e44 e16  109 e57 e51 e48 e44 e44 e44 e19  109 e57 e51 e48 e44 e44 e44 e44 e45  109 e57 e51 e48 e44 e46 e98 e55  109 e57 e51 e48 e44 e46 e79  109 e57 e51 e48 e44 e49 e79  109 e57	CT NOV DEC JAN FEB MAR APR MAY  222 50 660 e51 e43 e44 201 141  284 55 e58 e49 e41 e43 162 138  285 65 e58 e49 e41 e43 162 138  286 161 e54 e53 e40 e48 147 150  286 17 e57 e51 e41 e43 140 280  285 52 e57 e51 e41 e43 140 280  286 19 60 e57 e51 e41 e43 140 280  286 19 60 e57 e51 e46 e46 154 489  287 14 62 e59 e47 e46 e56 147 564  288 11 60 e58 e51 e49 e43 e71 142 716  289 57 e54 e51 e44 e59 149 634  290 57 e54 e51 e44 e100 119 527  291 60 e57 e53 e49 e46 e98 119 527  291 60 e57 e51 e44 e100 119 527  291 60 e57 e51 e44 e100 119 527  291 49 e55 e47 e46 e98 114 355  291 49 e55 e47 e44 e100 119 527  291 606 e57 e51 e44 e100 119 527  291 606 e57 e53 e49 e46 e98 119 422  291 606 e57 e51 e44 e100 119 527  291 606 e57 e53 e49 e46 e98 114 355  283 57 e59 e51 e43 e90 121 446  283 57 e59 e51 e43 e130 130 701  285 48 e51 e40 e95 117 352  286 655 e57 e47 e44 e43 e148 127 854  277 e58 e55 e57 e47 e44 e43 e148 127 854  278 56 e55 e51 e43 e130 130 701  279 e58 e57 e44 e44 e102 119 111 715  286 e57 e59 e51 e43 e130 130 130 701  270 e58 e57 e44 e44 e162 125 862  271 e58 e57 e44 e44 e103 140 140 140 140 140 140 140 140 140 140	WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004	TOTO NOV DEC JAN FEB MAR APR MAY JUN JUL  22 50 660 e51 e43 e44 201 141 567 377 228 55 c58 e49 e41 e43 162 138 635 368 40 61 c54 c53 e40 e48 147 150 828 343 45 53 c57 c55 e43 e44 188 194 951 320 20 45 c57 c51 e41 e43 140 280 973 301 25 52 c57 c55 e44 e44 183 194 951 220 21 60 c57 e51 e46 e76 e76 147 564 1,200 295 114 62 c59 e47 e46 e56 147 564 1,200 279 114 62 c59 e47 e46 e56 147 564 1,200 279 114 62 c59 e43 e41 e59 149 634 1,100 268 115 60 c58 c51 e44 e59 149 634 1,100 268 116 60 c57 c51 e41 e90 127 666 675 293 117 e56 c57 e51 e44 e59 149 634 1,100 268 118 e60 e57 e51 e44 e59 149 634 1,100 268 119 e60 c57 c51 e44 e59 149 634 1,100 268 110 e60 c57 c51 e44 e59 149 634 1,100 268 111 e60 c58 c51 e44 e59 149 634 1,100 268 112 e1 e55 e49 e43 e71 142 716 998 258 113 e44 e59 149 634 1,100 268 114 e2 716 e84 e84 136 769 779 252 115 e56 c57 e51 e44 e100 119 577 598 237 115 e40 e88 119 422 688 232 116 e0 c57 c51 e44 e100 119 527 598 237 117 e58 e57 e53 e49 e46 e98 119 422 688 232 118 e49 e55 e47 e46 e98 119 422 688 232 119 e49 e55 e47 e46 e98 119 422 688 232 119 e49 e55 e47 e46 e98 119 422 688 232 110 e50 e57 e51 e44 e100 119 577 598 237 110 e50 e55 e57 e47 e46 e98 114 355 737 223 110 e50 e55 e57 e47 e46 e98 114 355 737 223 111 e50 e55 e57 e47 e46 e13 e148 127 854 596 277 118 e58 e57 e47 e44 e162 125 862 594 277 118 e56 e55 e51 e43 e13 e13 e13 170 e14 46 669 244 119 e56 e53 e51 e43 e148 127 854 596 267 117 e58 e57 e47 e44 e162 125 862 594 256 118 e56 e55 e51 e43 e13 e13 e13 150 e14 20	CT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG  22

Also occurred Feb 1, 2002.
 At datum then in use. Maximum gage height, 4.77 ft, Jun 16, 1995, at present datum.

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#### 09126000 CIMARRON RIVER NEAR CIMARRON, CO

LOCATION.--Lat 38°15′26", long 107°32′46", in NW  $^{1}_{4}$ NE  $^{1}_{4}$  Sec.8, T.46 N., R.6 W., Gunnison County, Hydrologic Unit 14020002, on right bank 0.2 mi upstream from Forest Service bridge, 0.8 mi upstream from headgate on Cimarron Ditch, 1.9 mi downstream from Silver Jack Dam, and 13 mi south of Cimarron.

DRAINAGE AREA.--66.6 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1954 to current year. Prior to October 1965, published as Cimarron Creek near Cimarron. Statistical summary computed for 1971 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09126000

REVISED RECORDS .-- WSP 2124: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Datum of gage is 8,641.48 ft above NGVD of 1929. Oct. 14, 1954 to Oct. 11, 1972 at site 0.4 mi downstream at different datum. Oct. 12, 1972 to Sept. 30, 1996 at site 0.2 mi downstream at datum 10.00 ft lower.

REMARKS.—Records good except for estimated daily discharges, which are poor. Diversion upstream from station through Owl Creek Ditch into Uncompangre River Basin. Flow regulated by Silver Jack Dam, 1.9 mi upstream since Dec. 23, 1970, total capacity, 13,520 acre-ft.

# DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

					DA	ILI MEAN	ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	20 21 20 20 28	19 20 21 21 20	13 14 e15 e15 e15	13 e14 e14 e14 e14	e13 e13 e12 e12 e12	e11 e11 e12 e12 e11	15 17 17 18 19	17 19 22 23 30	224 280 365 431 464	114 109 96 86 81	134 127 112 113 114	87 87 85 86 85
6 7 8 9 10	35 35 32 28 28	20 20 21 21 21	14 14 14 e14 e14	e14 e14 e14 e14	e12 e12 e12 e12 e12	e11 e11 e11 e11	20 21 20 21 19	51 61 132 301 324	543 548 568 526 441	83 89 100 112 112	113 113 114 112 107	82 70 70 69 70
11 12 13 14 15	35 40 40 37 33	21 18 14 14 14	e14 e14 e14 13 e14	e14 e14 e14 e14	e12 e12 e12 e12 e12	11 11 11 11 11	18 17 18 19 22	382 314 222 164 139	295 230 196 265 276	112 113 117 117 118	107 107 105 103 102	69 69 64 58 58
16 17 18 19 20	33 33 33 33 33	14 e15 e15 e15 e15	e14 e14 e14 e14	13 e14 e14 e14 e13	e12 e12 e11 12 e11	11 11 12 12 13	24 26 24 21 18	165 247 288 432 518	254 256 204 185 179	117 117 118 122 126	102 102 103 103 102	58 58 44 29 29
21 22 23 24 25	33 34 33 33 33	14 e15 e15 e15 e15	13 e14 e14 e14 e14	e14 e13 e13 e13	e11 e12 e12 e12 e12	14 14 15 15 16	15 14 14 13 14	492 469 406 411 363	166 145 141 142 144	126 126 125 125 125	103 103 99 91 91	25 24 23 21 20
26 27 28 29 30 31	33 28 19 19 19	e14 e15 e15 e15	13 e14 e14 e14 e14 e14	e13 e13 e13 e13 e13	e11 12 12 e12	17 17 15 e16 e16 15	15 17 18 19 18	342 388 449 524 318 231	133 126 120 115 114	130 138 137 136 136 135	94 95 94 93 91 86	20 19 17 18 18
TOTAL MEAN MAX MIN AC-FT	920 29.7 40 19 1,820	506 16.9 21 14 1,000	433 14.0 15 13 859	421 13.6 14 13 835	346 11.9 13 11 686	396 12.8 17 11 785	551 18.4 26 13 1,090	8,244 266 524 17 16,350	8,076 269 568 114 16,020	3,598 116 138 81 7,140	3,235 104 134 86 6,420	1,532 51.1 87 17 3,040
STATIST	ICS OF MO	NTHLY MEA	N DATA FO	OR WATER YI	EARS 1971	- 2004, BY V	VATER YEAR	R (WY)				
MEAN MAX (WY) MIN (WY)	45.6 135 (1983) 20.2 (1991)	22.2 46.9 (1986) 8.18 (1990)	16.3 31.7 (1974) 6.79 (1978)	15.0 30.0 (1974) 2.36 (1971)	15.2 29.4 (1986) 3.03 (1971)	16.6 35.3 (1986) 4.45 (1971)	24.2 46.5 (1987) 8.46 (1977)	177 440 (1996) 46.5 (1995)	417 799 (1984) 109 (2002)	209 640 (1995) 82.7 (2002)	116 239 (1983) 63.8 (2002)	74.0 126 (1995) 32.2 (1977)
SUMMAI	RY STATIST	TICS		FOR 2003 CA	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 19	71 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU	MEAN ANNUAL I ANNUAL I DAILY ME DAILY ME	MEAN EAN AN AY MINIMUI LOW	M	32,695 89. 1,120 e10 e11	6 May Feb Jan	4	56 e1	77.2 58 Jun 11 Feb 11 Mai	18 5 8	1,	0,c0.00 D 0.00 D 620 J	1984 1977 fun 16, 1995 dec 24, 1970 dec 24, 1970 fun 5, 1997 un 5, 1997
10 PERCE 50 PERCE	RUNOFF (A ENT EXCEE ENT EXCEE	DS DS		64,850 153 23						69,	410 246 30	

- Estimated.
  Average discharge for 16 years (water years 1955-70), 88.6 ft<sup>3</sup>/s; 64,190 acre-ft/yr, prior to completion of Silver Jack Dam.
  Also occurred Dec 25-31, 1970, and Jan 1-9, 1971. Result of storage in Silver Jack Dam.
  Minimum daily discharge prior to construction of Silver Jack Dam, 8.0 ft<sup>3</sup>/s, Dec 27-28, 1962, and Jan 13, 1963.
  Also occurred May 30, 2003.

90 PERCENT EXCEEDS

- Maximum discharge and stage for period of record, 1,790 ft<sup>3</sup>/s, Jun 28, 1957, gage height, 8.32 ft, site and datum then in use.
- Maximum gage height for statistical period, 6.16 ft, Jun 25, 1971.

#### 09128000 GUNNISON RIVER BELOW GUNNISON TUNNEL, CO

LOCATION.--Lat 38°31'45", long 107°38'54", in NE  $^1$ /<sub>4</sub>NW  $^1$ /<sub>4</sub> sec.10, T.49 N., R.7 W., Montrose County, Hydrologic Unit 14020002, on left bank 0.4 mi downstream from east portal of Gunnison Tunnel, 4.7 mi downstream from Crystal Creek, and 12 mi northeast of Montrose.

DRAINAGE AREA.--3.965 mi<sup>2</sup>

PERIOD OF RECORD.--October 1903 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as "at east portal of Gunnison Tunnel" 1905-6 and as "at River portal" 1907-11. Statistical summary computed for 1911 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09128000

REVISED RECORDS.--WSP 1313: 1906(M). WSP 1733: 1918-19, 1948. WSP 2124: Drainage area. WDR CO-77-2: 1926, 1941.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 6,526.06 ft above NGVD of 1929. Apr. 9, 1905 to Aug. 20, 1915, nonrecording gage at site 300 ft upstream from diversion dam at east portal of Gunnison Tunnel, at different datum. Aug. 21, 1915 to Jan. 19, 1943, nonrecording gage at site 500 ft downstream from diversion dam at east portal of Gunnison Tunnel, at different datum. Jan. 20, 1943 to Sept. 30, 1956, water-stage recorder at present site at datum 1.0 ft, higher.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by transmountain diversions, transbasin diversion through Gunnison Tunnel for irrigation of about 75,000 acres in Uncompangre Valley (see table below for figures of diversion), Taylor Park Reservoir (station 09108500), Blue Mesa Reservoir (station 09124600), Morrow Point Reservoir (station 09125400), Crystal Reservoir (station 09127600), diversions for irrigation of about 63,000 acres, and return flow

COOPERATION.--Diversions, in acre-feet, through Gunnison Tunnel; provided by Colorado Division of Water Resources.

#### DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES DAY OCT NOV DEC JUN JUL AUG SEP **FEB** APR JAN MAR MAY 352 315 22 1.340 ---11,339 TOTAL 10,086 9,571 10,010 9,261 9,672 9,433 10,741 11,138 20,077 17,667 17,975 MEAN 360 328 325 753 1,340 MAX MIN 22,490 20,010 18,980 19,850 18,370 19,180 18,710 21,300 22,090 39,820 35,040 35,650 AC-FT 34,200 5.050 32,970 49,700 54,440 64,320 64,870 54,740 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2004, BY WATER YEAR (WY) 3.859 1.505 MEAN 1,261 3.052 2,732 2.114 1.888 2.165 3.153 3.278 3,282 8.617 11,670 8.468 2.237 2.447 MAX (1971) (1971) (1971)(1929) (WY) (1912)(1974)(1930) (1928)(1957)(1957) (1957) (1987)MIN 17.0 34.4 8.37 (1935)(1935)(1966)(1966)(1966)(1954)(1967)(WY) (1966)(1954)(1940)(1924)(1937)SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1911 - 2004 152,303 ANNUAL TOTAL 146,970 ANNUAL MEAN 1,283 HIGHEST ANNUAL MEAN 2,936 LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN Sep 30 1,330 1,340 18,600 Jun 15, 1921 Jun 2.52 b0.00 Sep 11, 1915 Feb Dec 13 ANNUAL SEVEN-DAY MINIMUM Dec 9 0.30 Oct 26, 1950 Feb MAXIMUM PEAK FLOW Sep 30 1,480 c19,000 Jun 15, 1921 MAXIMUM PEAK STAGE 15.80 3.99 Sep 30 Jun 15, 1921 291 500 929 100 ANNUAL RUNOFF (AC-FT) 302,100 10 PERCENT EXCEEDS 3,020 50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

Diversions, in acre-feet, through Gunnison Tunnel, provided by Colorado Division of Water Resources. Also occurred Sep 26, 1936, Oct 8, 1949, Sep 5-6, and 15-16, 1950.

b

Present datum, from rating curve extended above 14,000 ft<sup>3</sup>/s.

# 09132500 NORTH FORK GUNNISON RIVER NEAR SOMERSET, CO

 $LOCATION.--Lat~38^{\circ}55^{\circ}33^{\circ}, long~107^{\circ}26^{\circ}01^{\circ}, in~SE^{1}_{4}SW^{1}_{4} sec. 10, T.13~S., R.90~W., Gunnison~County, Hydrologic~Unit~14020004, on left bank~2.3~mi~east~of~Somerset~and~4.8~mi~upstream~from~Hubbard~Creek.$ 

DRAINAGE AREA.--526 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1933 to current year. Monthly discharge only for some periods, published in WSP 1313. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09132500

REVISED RECORDS.--WSP 2124: Drainage area. WDR CO-77-2: 1976.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 6,280 ft above NGVD of 1929, from topographic map. Prior to Oct. 1, 1982, at various sites 0.8 mi downstream, at different datums. See WDR CO-81-2, for history of changes.

REMARKS.—Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by small diversions for irrigation in nearby drainage areas, irrigation of about 3,000 acres upstream from station, storage in Overland Reservoir (capacity, 6,280 acre-ft), and storage in Paonia Reservoir (capacity, 18,300 acre-ft), since February 1962.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES  DAY OCT NOV DEC IAN FER MAR APR MAY IUN IUI AUG SEP													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	64	48	e62	e63	e62	71	622	619	649	332	244	127		
2	75	51	e58	67	e62	68	709	619	689	292	255	65		
3	80	68	e51	59	e64	64	741	737	866	259	252	60		
4	74	57	e50	e55	e65	66	722	940	1,050	235	245	87		
5	72	54	e44	40	e65	66	849	e1,230	1,160	219	242	105		
6	70	50	e50	e40	e58	65	854	e1,450	1,280	222	241	86		
7	67	54	e53	e48	e57	64	797	e1,620	1,300	218	236	81		
8	66	51	e57	e55	e58	71	884	e1,710	1,240	222	236	79		
9	64	52	e52	e63	e64	89	1,000	e1,770	1,130	247	239	78		
10	63	67	e45	e65	e58	113	971	e1,940	938	265	244	77		
11	64	65	e47	e65	e57	124	881	e1,800	749	255	244	81		
12	62	59	e46	e70	e69	137	812	1,420	614	248	242	78		
13	60	57	e40	e73	e66	152	772	1,270	583	247	238	71		
14	59	71	e52	e74	e71	156	800	1,000	670	256	242	68		
15	59	61	e63	e63	e73	150	721	859	709	246	244	66		
16	58	54	e49	e65	e71	142	554	884	641	242	242	66		
17	58	60	e49	e65	e71	139	608	1,010	586	284	241	70		
18	58	53	e53	e66	e70	160	615	1,110	532	270	244	70		
19	57	50	e58	e62	e77	202	521	1,450	508	238	250	77		
20	55	58	e61	e61	e82	268	468	1,700	504	237	244	121		
21	55	57	e63	e60	e84	340	446	1,590	477	238	235	149		
22	55	57	e74	e65	e86	436	423	1,440	410	250	243	153		
23	54	e48	e64	e62	e80	634	401	1,190	371	259	245	134		
24	53	e41	e60	e66	e72	742	367	1,110	354	261	243	132		
25	52	e49	e58	e62	e70	840	368	1,070	340	249	244	127		
26 27 28 29 30 31	51 53 53 54 50 48	e61 e53 e42 e53 e61	e64 e60 57 56 e59 e64	e66 e69 e65 e64 e62 e65	e68 67 69 66 	864 817 698 617 556 547	377 464 584 669 743	1,020 1,050 1,100 1,180 945 744	337 314 285 272 363	252 270 261 245 247 248	238 237 235 230 225 220	124 118 113 112 118		
TOTAL	1,863	1,662	1,719	1,925	1,982	9,458	19,743	37,577	19,921	7,814	7,460	2,893		
MEAN	60.1	55.4	55.5	62.1	68.3	305	658	1,212	664	252	241	96.4		
MAX	80	71	74	74	86	864	1,000	1,940	1,300	332	255	153		
MIN	48	41	40	40	57	64	367	619	272	218	220	60		
AC-FT	3,700	3,300	3,410	3,820	3,930	18,760	39,160	74,530	39,510	15,500	14,800	5,740		
				R WATER YE		,		` ′						
MEAN	118	92.4	75.5	64.5	69.8	155	715	1,895	1,440	443	200	150		
MAX	466	318	271	166	180	721	1,736	3,993	4,095	1,834	438	319		
(WY)	(1987)	(1987)	(1966)	(1966)	(1986)	(1986)	(1986)	(1984)	(1957)	(1995)	(1957)	(1986)		
MIN	47.9	35.2	33.1	29.6	30.4	40.2	166	314	179	64.6	48.1	47.6		
(WY)	(1957)	(1990)	(1978)	(1990)	(1978)	(1964)	(1977)	(1977)	(1934)	(1934)	(1977)	(1934)		
SUMMAR	RY STATIST	TCS		FOR 2003 CA	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 193	4 - 2004		
LOWEST HIGHEST LOWEST ANNUAL	MEAN ANNUAL M ANNUAL M DAILY ME DAILY ME SEVEN-DA	IEAN AN AN Y MINIMUM	ſ	130,771 358 3,210 e34 39	May Feb Feb	7		2 40 May 40 Dec 48 Dec	13	7,0	17 No 25 Fe	1984 1977 xy 24, 1984 vv 10, 1950 eb 17, 1978		
MAXIMU ANNUAL 10 PERCE 50 PERCE	M PEAK FL M PEAK ST RUNOFF (A ENT EXCEE ENT EXCEE ENT EXCEE	'AGE AC-FT) DS DS		259,400 915 119 43			226,20 88 11	4.57 May 00 32		328,1 1,4	a8.20 Ma	y 24, 1984 y 24, 1984		

e Estimated.

a From outside high-water mark.

# 09132940 HUBBARD CREEK ABOVE IRON POINT GULCH NEAR BOWIE, CO

LOCATION.--Lat 38°58'57", long 107°31'52", in  $SE^{1}_{4}SE^{1}_{4}$  sec.27, T.12 S., R.91 W., Delta County, Hydrologic Unit 14020004, on right bank 0.4 mi upstream from Iron Point Gulch, and 4.2 mi northeast of Bowie.

DRAINAGE AREA.--48.4 mi<sup>2</sup>.

PERIOD OF RECORD.--August 2001 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09132940

GAGE.--Water-stage recorder. Elevation of gage is 6,600 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges and discharges above 30 ft<sup>3</sup>/s, which are poor. No known diversions upstream from station.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum discharge, 217 ft<sup>3</sup>/s, Sept. 20, 2004, gage height, 2.83 ft, from rating curve extended above 26 ft<sup>3</sup>/s; minimum daily, 0.05 ft<sup>3</sup>/s, Aug. 19, 2002.

EXTREMES FOR CURRENT YEAR (seasonal only).—Maximum discharge, 217 ft<sup>3</sup>/s, Sept. 20, gage height, 2.83 ft, from rating curve extended above 26 ft<sup>3</sup>/s; minimum daily, 0.93 ft<sup>3</sup>/s, Oct. 1.

#### DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2	0.93 1.7								10 9.6	5.9 3.5	3.5 3.7	2.3 1.8
3	3.8								8.6	2.6	4.1	1.4
4	2.3								8.8	2.2	4.1	7.5
5	2.1								9.2	2.1	4.3	15
6	1.9								14	1.9	5.9	12
7	1.7								15	1.8	8.1	8.1
8	1.6								14	1.7	4.6	6.0
9	1.6								11	1.6	3.9	e5.2
10	1.5								8.7	1.5	3.7	e5.1
11	1.6								6.0	1.8	3.6	e8.3
12	1.6								4.5	1.9	3.6	e7.2
13	1.8								4.5	3.4	3.7	e5.7
14	1.7								4.0	3.8	3.8	e4.4
15	1.7								4.6	4.2	3.8	e3.6
16	1.6								4.5	7.5	4.3	e3.1
17	1.6								4.1	10	5.9	e2.3
18	1.5								4.4	9.4	4.9	e2.5
19	1.4								4.1	9.4	6.3	e6.5
20	1.4								3.8	5.9	5.9	e122
21	1.4								3.8	5.3	6.9	74
22	1.4								3.8	4.3	6.4	34
23	1.4								e3.4	3.7	5.2	21
24	1.5								e3.3	4.8	4.7	23
25	1.4								e3.4	5.7	4.6	18
26	1.6							18	e3.5	4.8	4.3	15
27	1.9							15	3.6	10	4.2	13
28	2.1							15	3.9	13	4.5	12
29	2.1							18	3.3	6.3	3.8	16
30	2.1							16	4.3	4.5	3.1	19
31								12		3.8	2.6	
TOTAL									189.7	148.3	142.0	475.0
MEAN									6.32	4.78	4.58	15.8
MAX									15	13	8.1	122
MIN									3.3	1.5	2.6	1.4
AC-FT									376	294	282	942

e Estimated.

## 09132960 HUBBARD CREEK AT HIGHWAY 133 AT MOUTH NEAR BOWIE, CO

 $LOCATION.--Lat~38^{\circ}55'32", long~107^{\circ}31'04", in~NE^{1}_{4}NE^{1}_{4}~sec.~14,~T.13~S.,~R.91~W.,~Delta~County,~Hydrologic~Unit~14020004, on~left~bank~at~upstream~side~of~bridge~on~State~Highway~133,~100~ft~upstream~from~mouth,~and~1.3~mi~northeast~of~Bowie.$ 

DRAINAGE AREA.--57.7 mi<sup>2</sup>.

 $PERIOD\ OF\ RECORD. -- October\ 2001\ to\ current\ year.\ For\ a\ complete\ listing\ of\ historical\ data\ available\ for\ this\ site,\ see\ http://waterdata.usgs.gov/co/nwis/inventory/\\?site\_no=09132960$ 

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 5,880 ft above NGVD of 1929, from topographic map.

REMARKS.—Records good except estimated daily discharges, which are poor. Diversions upstream from station for irrigation. Most of the flow is diverted during irrigation season

					R YEAR OC	, CUBIC FEE TOBER 2003 LY MEAN V	TO SEPTEM					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	e0.36 e0.60 e0.90 e1.6 e0.79	0.07 0.18 2.3 0.73 0.48	1.5 1.5 e1.3 e1.3 e1.2	2.1 2.3 e2.0 e2.0 e1.9	1.9 1.7 1.7 1.8 1.8	3.6 3.8 2.6 2.6 2.7	74 81 82 81 143	68 63 74 98 104	7.2 6.4 5.4 5.2 5.1	2.5 0.92 0.45 0.36 0.34	1.4 1.5 1.7 1.6 1.6	0.43 0.41 0.35 2.9
6 7 8 9 10	e0.49 e0.35 e0.21 e0.18 0.02	0.32 0.43 0.32 0.41 1.3	1.1 1.3 1.7 e2.0 e1.9	e1.8 e1.8 e1.9 e2.0 2.1	e1.7 e1.7 1.8 2.0 1.9	2.8 e3.0 e2.9 e3.1 e3.5	123 104 136 147 126	130 137 135 132 e128	7.5 10 9.0 6.1 4.2	0.32 0.31 0.27 0.19 0.18	1.9 4.4 2.0 1.4 1.3	10 6.4 4.2 3.1 3.1
11 12 13 14 15	0.03 0.03 0.03 0.04 0.04	1.4 0.87 1.3 2.3 1.6	e1.8 e1.7 e1.5 1.5 e1.5	2.1 2.1 2.0 2.0 2.1	1.7 1.7 1.8 1.9	e5.0 e7.5 7.9 8.6 8.8	96 89 86 88 81	e118 99 81 59 48	3.0 1.7 1.7 1.2 1.3	0.19 e0.66 e2.5 e2.6 e3.0	1.1 1.1 1.0 1.2 1.2	6.4 5.7 3.9 2.7 2.1
16 17 18 19 20	0.04 0.04 0.04 0.04 0.04	1.1 2.0 0.87 1.0 1.3	e1.6 e1.7 e1.7 1.9 1.8	2.1 2.0 1.9 1.9	1.7 1.7 1.8 2.3 2.4	8.4 8.5 13 20 28	83 86 85 64 51	44 46 51 64 76	1.5 1.4 1.7 1.4 0.96	e6.8 e8.1 e7.2 e7.6 2.5	1.3 2.3 2.0 2.7 2.6	1.8 0.88 0.95 4.9 75
21 22 23 24 25	0.05 0.05 0.06 0.06 0.06	1.6 1.4 0.36 0.86 e1.0	1.9 1.9 e1.8 e1.8 2.0	1.9 1.9 1.9 1.9	2.1 2.2 2.5 2.2 2.3	38 56 69 88 134	50 50 50 50 61	70 59 34 28 24	1.0 0.89 0.53 0.38 0.39	2.4 1.4 1.2 1.5 2.4	3.2 3.0 2.7 2.1 1.7	58 32 20 21 17
26 27 28 29 30 31	0.07 0.07 0.08 0.07 0.07 0.07	1.1 e1.1 e1.1 1.0 1.4	1.9 e1.8 e1.9 e1.9 2.2 2.3	e1.7 1.8 1.7 1.7 1.7 1.8	2.8 2.6 3.0 3.0	123 92 52 39 42 56	61 67 79 80 93	17 14 12 13 13 9.1	0.70 0.74 0.99 0.73 0.74	1.4 5.8 10 4.1 2.4 1.7	1.3 1.3 1.5 1.1 0.77 0.50	16 12 12 14 18
TOTAL MEAN MAX MIN AC-FT	6.58 0.21 1.6 0.02 13	31.20 1.04 2.3 0.07 62	52.9 1.71 2.3 1.1 105	59.9 1.93 2.3 1.7 119	59.6 2.06 3.0 1.7 118	935.3 30.2 134 2.6 1,860	2,547 84.9 147 50 5,050	2,048.1 66.1 137 9.1 4,060	89.05 2.97 10 0.38 177	81.29 2.62 10 0.18 161	54.47 1.76 4.4 0.50 108	368.22 12.3 75 0.35 730
MEAN MAX (WY) MIN (WY)	0.52 1.27 (2003) 0.08 (2002)	0.99 1.31 (2003) 0.61 (2002)	0.89 1.71 (2004) 0.19 (2003)	1.01 1.93 (2004) 0.21 (2003)	1.04 2.06 (2004) 0.23 (2003)	- 2004, BY W 12.8 30.2 (2004) 2.43 (2002)	60.9 84.9 (2004) 32.4 (2002)	62.4 119 (2003) 2.32 (2002)	8.20 21.6 (2003) 0.06 (2002)	0.96 2.62 (2004) 0.05 (2002)	0.76 1.76 (2004) 0.01 (2002)	5.09 12.3 (2004) 0.29 (2002)
SUMMAI	RY STATIST	TICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 200	2 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE 50 PERCE	L MEAN  T ANNUAL M  T ANNUAL M  T DAILY ME  T DAILY ME	MEAN AN AN Y MINIMUN OW FAGE AC-FT) DS DS	И	22: 13,266 86	5 May 0.02 Oct 0.03 Oct	10	1. 2 12,5	0.03 Oct 22 Apr 2.60 Apr	t 10 t 10 r 5	3	a0.00 Au 0.00 Au 355 Ma	2003 2002 2y 18, 2003 g 17, 2002 g 22, 2002 y 18, 2003 y 18, 2003

e Estimated.

a Also occurred Aug 18, 19, Aug 22 to Sep 6, 2002.

## 09132985 EAST FORK TERROR CREEK BELOW COTTONWOOD STOMP NEAR BOWIE, CO

 $LOCATION.--Lat~38^\circ57^\prime53^\circ, long~107^\circ33^\prime59^\circ, in~NW^{1}_{4}SW^{1}_{4}~sec. 33,~T.12~S.,~R.91~W.,~Delta~County,~Hydrologic~Unit~14020004,~on~right~bank~200~ft~downstream~from~culvert~crossing,~0.6~mi~downstream~from~Cottonwood~Stomp,~and~3.2~mi~northwest~of~Bowie.$ 

DRAINAGE AREA.--4.76 mi<sup>2</sup>.

PERIOD OF RECORD.--August 2001 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09132985

GAGE.--Water-stage recorder. Elevation of gage is 7,500 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. No diversions upstream from station. Flow partially regulated by Terror Creek Reservoir 1.4 mi upstream from station on unnamed tributary.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum discharge, 13 ft<sup>3</sup>/s, June 22, 23, July 27, 2004, gage height, 1.01 ft; minimum daily, 0.14 ft<sup>3</sup>/s, Sept. 26, 27, 2003.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge during period of operation, 13 ft<sup>3</sup>/s, June 22, 23, July 27, gage height, 1.01 ft; minimum daily, 0.16 ft<sup>3</sup>/s, Oct. 1.

## DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.16								2.4	4.7	3.5	6.9
2	0.31								2.7	3.9	3.5	6.8
3	0.42								3.3	3.4	3.5	6.7
4	0.41								5.6	3.0	3.5	7.3
5	0.29								6.1	2.8	3.5	6.9
6	0.25								6.5	3.5	3.8	6.1
7	0.24								6.5	4.1	4.4	6.0
8	0.23								7.0	3.9	4.4	5.4
9	0.22								6.5	5.0	4.3	4.9
10	0.26								5.4	6.7	5.6	4.9
11	0.30								3.3	5.5	6.5	4.8
12	0.39								4.4	4.3	6.5	5.5
13	0.41								3.9	4.3	6.5	5.4
14	0.31								4.2	4.3	6.2	5.2
15	0.26								4.8	4.3	6.1	5.2
16	0.27								4.4	4.3	5.9	4.9
17	0.29								4.6	4.3	5.9	4.5
18	0.29								4.6	4.4	5.3	3.0
19	0.29								4.1	4.4	4.7	1.8
20	0.34								3.8	4.5	5.5	5.1
21	0.35								4.0	4.5	6.0	4.9
22	0.35								5.4	4.5	6.1	2.7
23	0.34								12	4.5	6.0	1.7
24	0.34								9.9	4.7	5.8	1.7
25	0.35								3.9	4.5	5.4	1.3
26	0.26								4.3	4.3	2.6	1.2
27	0.21							2.4	4.9	6.2	3.3	0.86
28	0.26							4.0	4.7	6.7	5.3	0.72
29	0.28							5.6	4.3	6.1	5.9	1.2
30								3.6	4.6	4.5	6.3	1.5
31								2.7		3.6	7.0	
TOTAL									152.1	139.7	158.8	125.08
MEAN									5.07	4.51	5.12	4.17
MAX									12	6.7	7.0	7.3
MIN									2.4	2.8	2.6	0.72
AC-FT									302	277	315	248

## 09132995 TERROR CREEK AT MOUTH NEAR BOWIE, CO

LOCATION.--Lat 38°54′14″, long 107°33′41″, in NW¹¼SE¹¼ sec.21, T.13 S., R.91 W., Delta County, Hydrologic Unit 14020004, on right downstream end of box culvert, 450 ft upstream from mouth, and 1.6 mi southwest of Bowie.

DISCHARGE, CUBIC FEET PER SECOND

DRAINAGE AREA.--29.5 mi<sup>2</sup>.

PERIOD OF RECORD.--June 2001 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09132995

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 5,760 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions upstream from station for irrigation.

### WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES OCT NOV DEC JUN JUL SEP DAY JAN FEB MAR APR MAY AUG 0.00 0.31 0.12 e0.02 e0.08 0.03 0.22 0.21 0.21 0.01 0.45 0.09 e0.02 e0.08 0.20 53 33 0.23 0.36 0.04 0.17 1.2 1.2 3 0.01 0.06 e0.02 e0.07 0.33 49 40 0.26 0.31 0.07 0.16 47 e0.020.55 0.50 0.03 0.05e0.0748 0.190.180.51 5 0.97 83 48 0.05 e0.02 e0.08 0.37 0.70 0.14 0.74 0.02 0.20 6 0.03 1.00 e0.03 e0.02e0.08 0.28 67 52 0.59 0.15 0.20 0.43 0.88 0.79 $0.28 \\ 0.37$ 58 92 $0.64 \\ 0.71$ $0.15 \\ 0.13$ $0.13 \\ 0.04$ 0.26 0.14 0.01 e0.02 e0.02 e0.09 49 8 e0.03 e0.09 0.01 e0.03 46 0.01 0.66 e0.03 e0.03 e0.09 0.47 114 40 0.11 0.07 0.08 10 0.01 1.2 e0.02 e0.03 0.24 0.58 80 38 0.34 0.07 0.10 37 11 e0.03 55 0.01 0.55 e0.010.23 2.7 0.210.30 0.11 0.14 4.0 0.49 47 26 0.22 12 0.01 e0.01 e0.03 e0.11 0.06 0.14 0.16 49 0.22 0.01 0.36 e0.01 e0.03 e0.12 3.1 0.05 0.13 0.14 13 0.93 57 22 0.21 0.14 54 15 0.01 1.0 e0.01 e0.04 0.27 3.0 14 0.220.06 0.11 0.16 16 0.01 0.78 e0.01 e0.04 0.28 63 8.0 0.23 0.11 0.19 0.10 0.53 3.0 0.34 0.25 0.03 e0.01 e0.04 e0.15 66 0.18 0.1118 0.01 0.60 e0.01 e0.04 e0.15 7.1 62 18 0.57 0.12 0.30 0.03 43 34 19 0.010.29e0.01e0.04 0.83 13 27 0.37 0.120.28 0.04 27 20 20 21 0.31 3.9 0.020.62 e0.01 e0.051.0 0.1421 0.02 0.64 e0.01 e0.05 0.78 27 32 23 143 0.24 0.41 6.9 22 23 0.02 0.74 e0.01 e0.04 $0.75 \\ 0.84$ 39 47 29 27 17 119 0.26 0.44 1.2 0.32 5.9 0.20 e0.043.4 0.02 e0.010.26 25 2.1 24 53 e0.05 0.46 4.9 0.28 0.17 0.02 0.10 e0.020.28 25 29 0.02 e0.37 e0.02 e0.05 0.40 83 1.0 0.94 0.27 0.13 0.23 26 27 0.03 e0.02 e0.05 0.27 72 36 e0.52 0.44 1.8 0.20 0.11 0.18 51 0.33 e0.2251 0.32 $0.11 \\ 0.29$ 0.03 e0.02e0.064.5 0.650.15 e0.21 0.39 30 3.3 28 0.03 e0.02 60 0.27 0.85 0.11 e0.06 25 0.30 0.27 0.03 e0.20 e0.02 e0.07 0.25 62 0.70 0.82 0.12 31 61 0.21 e0.11 0.64 0.23 31 0.10 e0.02e0.07 ---43 0.20 0.10 0.34 TOTAL 0.62 18.12 0.79 1.22 8.70 566.94 1,638 702.89 313.13 7.81 5.92 17.45 0.02 0.03 0.04 0.30 22.7 0.25 0.19 0.58 MEAN 0.60 18.3 54.6 10.4 MAX 0.10 1.2 0.12 0.07 1.0 83 114 52 143 1.1 0.44 6.9 0.10 MIN 0.00 0.01 0.02 0.07 0.20 25 0.20 0.21 0.05 0.03 0.03 AC-FT 3.250 1.390 36 1,120 621 1.2 1.6 2.4 17 15 12 35 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2004, BY WATER YEAR (WY) MEAN 0.05 0.04 0.47 0.22 0.42 0.06 0.24 7.98 39.7 42.7 4.81 0.14

SUMMARY STATISTICS	FOR 2003 CALEN	NDAR YEAR	FOR 2004 WAT	ER YEAR	WATER YEARS	S 2001 - 2004
ANNUAL TOTAL	5,035.72		3,281.59			
ANNUAL MEAN	13.8		8.97		8.11	
HIGHEST ANNUAL MEAN					13.8	2003
LOWEST ANNUAL MEAN					1.56	2002
HIGHEST DAILY MEAN	224	May 19	143	Jun 21	224	May 19, 2003
LOWEST DAILY MEAN	0.00	Sep 23	0.00	Oct 1	a0.00	Aug 26, 2002
ANNUAL SEVEN-DAY MINIMUM	0.00	Sep 23	0.01	Oct 7	0.00	Aug 26, 2002
MAXIMUM PEAK FLOW		•	172	Jun 21	335	May 18, 2003
MAXIMUM PEAK STAGE			3.87	Jun 21	4.23	May 18, 2003
ANNUAL RUNOFF (AC-FT)	9,990		6,510		5,870	•
10 PERCENT EXCEEDS	51		43		27	
50 PERCENT EXCEEDS	0.31		0.23		0.17	
90 PERCENT EXCEEDS	0.01		0.02		0.02	

18.3

(2004)

(2002)

1.47

54.6

(2004)

(2002)

104

(2003)

(2002)

1.32

10.4

(2004)

(2002)

0.19

1.48

0.06

(2003)

(2002)

0.21

0.04

(2003)

(2002)

0.58

0.01

(2004)

(2002)

0.08

0.02

(2003)

(2004)

MAX (WY)

MIN

(WY)

0.60

0.19

(2004)

(2002)

0.06

0.03

(2003)

(2004)

0.09

0.04

(2003)

(2002)

0.32

0.11

(2003)

(2002)

e Estimated.

a No flow several days, most years.

## 09134000 MINNESOTA CREEK NEAR PAONIA, CO

 $LOCATION.--Lat~38^\circ52'12", long.~107^\circ30'13", in~NW^{1}_{4}NE^{1}_{4}~of~sec.1~(revised), T.14~S., R.91~W., Delta~County, Hydrologic~Unit~14020004, on~right~bank~0.25~mi~downstream~from~South~Fork, 6~mi~upstream~from~mouth, and 4.5~mi~east~of~Paonia.$ 

PERIOD OF RECORD.--April 1936 to September 1947, October 1985 to current year. For a complete listing of historical data available for this site, see http:// waterdata.usgs.gov/co/nwis/inventory/?site\_no=09134000

GAGE.--Water-stage recorder. Elevation of gage is 6,200 ft above NGVD of 1929, from topographic map. Apr. 1936 to Oct. 1941, staff gages at different datums. Oct. 1941 to Sept. 1947, water-stage recorder at different datum. Dec. 1985 to present, water-stage recorder, at datum 2.0 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by two small storage reservoirs, one of which obtains water from the East Muddy Creek Basin. Small transbasin diversions from Coal Creek into Minnestota Creek. Diversions upstream from station for irrigation of about

					R YEAR OC		ET PER SECO 3 TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	3.5 4.9 4.3 4.1 4.0	3.1 3.3 4.1 3.4 3.3	3.0 3.0 e2.8 e2.7 2.9	2.5 2.6 2.7 e2.2 e2.0	2.2 2.0 2.0 2.0 2.2	e2.8 e2.7 2.5 2.5 2.5	11 13 14 14 20	20 20 22 27 35	39 40 44 46 48	23 22 20 20 23	18 18 18 18 19	3.5 3.2 3.1 6.6 5.4
6 7 8 9 10	3.9 3.9 5.6 7.7 5.0	3.4 3.5 3.4 3.4 4.3	3.0 3.2 3.3 e3.3 e3.2	e2.1 e2.3 2.4 2.3 2.3	e2.1 e2.3 2.5 e2.7 e2.8	2.5 2.6 3.3 4.4 5.3	18 17 19 33 24	41 44 49 52 53	52 56 55 53 50	26 25 23 23 21	21 21 21 17 16	4.1 3.6 3.6 3.8 4.1
11 12 13 14 15	4.5 4.3 4.2 4.1 4.3	3.8 3.5 3.8 4.6 3.7	e3.2 e3.1 3.2 3.0 3.2	2.4 2.4 2.5 2.3 2.3	e2.8 e2.7 e2.7 2.6 2.4	5.0 5.5 5.7 5.6 5.9	19 16 15 15	53 52 48 41 36	47 43 40 38 39	20 20 19 19	16 16 16 15	3.9 3.6 3.8 3.6 3.6
16 17 18 19 20	4.2 3.9 3.7 3.7 3.5	3.5 3.6 3.3 e3.1 e3.0	e2.8 3.0 3.0 2.7 2.7	2.3 e2.4 e2.4 e2.3 2.2	2.6 2.4 2.4 2.6 2.8	5.3 5.5 6.4 7.9 9.6	17 18 18 17 16	34 37 42 49 52	37 35 27 27 26	20 21 21 20 19	15 14 15 15 14	3.3 3.2 3.0 5.1 8.3
21 22 23 24 25	3.7 3.9 3.9 3.5 3.4	3.2 3.1 2.9 e2.7 e2.8	2.8 2.8 2.7 2.8 2.5	2.2 2.4 2.2 2.2 2.1	2.6 2.6 2.5 2.4 2.6	11 11 12 12 13	16 16 15 14 14	51 50 48 45 40	26 27 25 28 27	19 18 18 18	14 14 13 12 12	11 9.0 6.4 5.7 5.0
26 27 28 29 30 31	3.2 3.2 3.2 3.2 3.0 3.1	3.2 e3.0 e2.9 2.9 3.0	2.5 2.6 e2.4 e2.4 2.5 2.5	e2.0 e1.9 2.0 2.0 2.0 2.1	2.7 2.8 e2.8 e2.7	13 12 9.6 8.3 8.4 9.4	14 15 18 19 21	42 43 44 45 41 42	26 25 25 24 24	17 18 19 18 18	10 4.0 4.1 3.7 3.5 3.3	4.8 4.7 4.7 5.1 5.7
TOTAL MEAN MAX MIN AC-FT	124.6 4.02 7.7 3.0 247	100.8 3.36 4.6 2.7 200	88.8 2.86 3.3 2.4 176	70.0 2.26 2.7 1.9 139	72.5 2.50 2.8 2.0 144	213.2 6.88 13 2.5 423	512 17.1 33 11 1,020	1,298 41.9 53 20 2,570	1,099 36.6 56 24 2,180	623 20.1 26 17 1,240	431.6 13.9 21 3.3 856	144.5 4.82 11 3.0 287
		NTHLY MEA 4.95		OR WATER Y 3.39		- 2004, BY V 7.03	VATER YEAF	8 (WY) 86.4	68.4	27.1	14.9	7.71
MEAN MAX (WY) MIN (WY)	5.68 16.6 (1942) 2.64 (2000)	12.9 (1987) 1.84 (2000)	4.11 9.08 (1987) 1.65 (2003)	5.80 (1942) 1.70 (2000)	3.78 8.62 (1986) 1.89 (2000)	19.2 (1986) 2.57 (2000)	26.0 89.6 (1942) 7.18 (1990)	199 (1993) 15.1 (2002)	194 (1993) 15.5 (2002)	27.1 88.2 (1995) 5.05 (2002)	29.7 (1993) 2.05 (2002)	7.71 19.8 (1993) 2.91 (2002)
SUMMAF	RY STATIST	ICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 19	37 - 2004
ANNUAL HIGHEST LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE 50 PERCE	ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				1.2 5.5 3 Jun 1.5 Feb 1.7 Jan 1 4 4 4.5	6	5 6 5 1 9,48	3.1 66 Jur 61.9 Jar 2.0 Jar 69 Jur 61.38 Jur	n 7 n 27 n 25 n 7 n 7		1.0 N a1.4 I 359 M c3.24 M	1993 2002 Iay 28, 1993 Iov 14, 1936 Feb 17, 1999 Iay 28, 1993 Iay 28, 1993

Also occurred Jan 16, 1990.

<sup>Also occurred Jan 10, 1990.
Maximum gage height, 1.63 ft, Feb 10, backwater from ice.
Maximum gage height, 3.70 ft, May 22, 1942, site and datum then in use.</sup> 

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## 09134100 NORTH FORK GUNNISON RIVER BELOW PAONIA, CO

 $LOCATION.--Lat~38^\circ51'27'', long~107^\circ37'19'', in~SW^1/_4SE^1/_4~sec.1, T.14~S., R.92~W., Delta~County, Hydrologic~Unit~14020004, on left bank~1,250~ft~downstream~from~Roatcap~Creek, and~1.5~mi~southwest~of~Paonia.$ 

DRAINAGE AREA.--741 mi<sup>2</sup>.

 $PERIOD\ OF\ RECORD. -- March\ 2000\ to\ current\ year.\ For\ a\ complete\ listing\ of\ historical\ data\ available\ for\ this\ site,\ see\ http://waterdata.usgs.gov/co/nwis/inventory/\\ ?site\_no=09134100$ 

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 5,560 ft above NGVD of 1929, from topographic map.

REMARKS.—Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by diversion to Fire Mountain Canal for irrigation of about 5,000 acres above and below station and many other smaller diversions for irrigation above station, storage in Overland Reservoir (capacity, 6,280 acre-ft), and storage in Paonia Reservoir (capacity, 18,300 acre-ft), since February 1962.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES AY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	39 29 49 56 53	60 64 81 74 64	74 71 64 61 59	60 55 54 e50 e45	65 66 60 61 58	85 86 88 88 89	758 832 862 866 1,160	496 455 543 784 1,030	419 427 553 773 862	78 55 39 26 20	13 17 17 14 12	9.4 13 10 20 49	
6 7 8 9 10	49 48 48 50 47	63 64 62 59 78	66 65 73 64 e54	e50 e60 e68 e68 e70	59 54 59 66 57	84 85 93 116 148	1,120 984 1,140 1,350 1,270	1,460 1,740 1,890 1,900 2,160	996 1,110 933 837 669	18 13 9.7 15 39	12 10 9.5 8.9 9.2	25 16 13 12 12	
11 12 13 14 15	47 41 41 39 43	79 72 70 89 88	e60 e61 e53 e68 e78	e70 e73 e76 e62 e58	62 e60 e59 e65 e70	165 179 204 214 212	1,040 935 848 818 736	2,120 1,590 1,340 961 762	448 350 330 363 400	35 23 22 27 32	11 10 9.2 8.9 10	13 11 10 9.0 10	
16 17 18 19 20	49 52 46 45 44	79 83 76 62 76	e55 e50 e55 e66 69	e57 e55 e54 e51 e52	e75 82 81 89 92	201 193 222 274 386	507 583 558 435 360	727 844 955 1,370 1,830	357 359 316 300 301	17 30 27 12 11	13 13 13 18 18	9.8 13 11 17 115	
21 22 23 24 25	37 30 30 35 49	82 78 e57 e45 e60	73 63 e69 58 60	e55 e61 e55 e50 e56	91 93 91 89 92	472 585 816 920 1,080	333 320 308 271 281	1,630 1,410 977 889 841	349 369 174 110 91	11 13 18 21 17	13 13 14 12 13	166 141 100 92 79	
26 27 28 29 30 31	49 60 61 62 61 57	e79 e70 50 62 76	66 58 e57 e60 61 63	e60 e63 71 68 66 63	90 95 100 91 	1,120 999 790 686 632 633	281 339 457 502 656	786 793 818 925 718 507	83 80 59 58 81	14 26 35 20 14 15	11 11 13 10 9.0	72 66 63 64 75	
TOTAL MEAN MAX MIN AC-FT	1,446 46.6 62 29 2,870	2,102 70.1 89 45 4,170	1,954 63.0 78 50 3,880	1,856 59.9 76 45 3,680	2,172 74.9 100 54 4,310	11,945 385 1,120 84 23,690	20,910 697 1,350 271 41,470	35,251 1,137 2,160 455 69,920	12,557 419 1,110 58 24,910	752.7 24.3 78 9.7 1,490	376.7 12.2 18 8.9 747	1,316.2 43.9 166 9.0 2,610	
						,		` /	41.4	10.6	16.0	22.0	
MEAN MAX (WY) MIN (WY)	43.1 60.2 (2003) 28.6 (2002)	.2 87.9 71.1 61.2 3) (2001) (2002) (2002) .6 70.1 49.5 45.0		61.2 (2002) 45.0	59.2 74.9 (2004) 45.2 (2003)	175 385 (2004) 88.5 (2002)	632 1,042 (2000) 380 (2002)	1,306 2,213 (2003) 255 (2002)	414 839 (2003) 72.8 (2002)	19.6 24.3 (2004) 8.89 (2002)	16.8 33.3 (2001) 9.89 (2002)	32.8 73.0 (2003) 13.3 (2000)	
SUMMAF	RY STATIST	TICS		FOR 2003 C	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 200	00 - 2004	
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE	MEAN ANNUAL M ANNUAL M DAILY ME DAILY ME	MEAN AN AN Y MINIMUN OW 'AGE AC-FT') DS	1	125,625.6 344 3,990 May 19 5.6 Jul 15 9.5 Jul 10 249,200 860 59			2,63 183,70 85	60 May 8.9 Aug 9.5 Aug 0 May 3.85 May	9 g 8 v 13	3,9 4,7 169,2	4.4 3 6.0 S 770 M 4.85 M	2003 2002 (ay 19, 2003 Jul 19, 2002 (ep 13, 2000 ay 19, 2003 (ay 19, 2003	
	ENT EXCEE			16				3			11		

e Estimated.

## 09135950 NORTH FORK GUNNISON RIVER BELOW LEROUX CREEK, NEAR HOTCHKISS, CO

 $LOCATION.--Lat~38^{\circ}47'18'', long~107^{\circ}44'21'', in~SW^{1}/_{4}SW^{1}/_{4}~sec. 36, T.14~S., R.93~W., Delta~County, \\ Hydrologic~Unit~14020004, on~left~bank~0.7~mi~downstream~from~Leroux~Creek, and~1~mi~southwest~of~Hotchkiss.$ 

DRAINAGE AREA.--922 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1997 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09135950

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,240 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by diversions for irrigation of about 44,000 acres upstream from station, storage in Overland Reservoir, capacity, 6,280 acre-ft, and storage in Paonia Reservoir (capacity, 18,300 acre-ft).

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum discharge, 3,220 ft<sup>3</sup>/s, May 24, 1999, gage height, 11.34, minimum daily, 21 ft<sup>3</sup>/s, Aug. 17, 2002. EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge 3,230 ft<sup>3</sup>/s (discharge measurement), June 11, 1997, gage height, 11.82 ft.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge during period of operation, 449 ft<sup>3</sup>/s, June 22, gage height, 9.28 ft; minimum daily, 39 ft<sup>3</sup>/s, July 9.

## DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89									161	53	61
2	83									117	56	60
3	101									90	67	61
4	110									72	60	84
5	106									62	58	125
6	103									53	61	104
7	101									45	63	89
8	98									41	56	80
9	97									39	51	76
10	98									52	50	80
11	98									63	51	82
12	95									50	48	78
13	92									43	46	74
14	92									45	46	69
15	93									53	50	67
16	94									50	55	68
17	95									66	57	69
18	93									83	64	67
19	92									60	69	87
20	89									50	80	183
21	87									49	73	339
22	84								422	48	71	296
23	85								251	63	71	230
24	87								200	70	72	209
25	100								179	65	71	178
26	96								174	63	68	162
27	102								170	71	66	152
28	102								137	91	69	139
29	100								116	72	67	146
30	102								129	62	61	155
31	94									58	63	
TOTAL	2,958									2,007	1,893	3,670
MEAN	95.4									64.7	61.1	122
MAX	110									161	80	339
MIN	83									39	46	60
AC-FT	5,870									3,980	3,750	7,280

## 09143000 SURFACE CREEK NEAR CEDAREDGE, CO

LOCATION (REVISED).--Lat 38°59′05″, long 107°51′14″, in NW ½NW ½ sec.25, T.12 S., R.94 W., Delta County, Hydrologic Unit 14020005, on right bank 50 ft downstream from private bridge, 1.4 mi downstream from Caesar Creek, and 7.0 mi northeast of Cedaredge.

DRAINAGE AREA.--27.4 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1939 to September 1999. October 1999 to current year (seasonal records only). Monthly discharge only for some periods, published in WSP 1313. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09143000

REVISED RECORDS.--WDR CO-83-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and concrete control. Elevation of gage is 8,261 ft above NGVD of 1929, from topographic map.

REMARKS.—Records good except for Oct. 1-21, Apr. 21 to July 21, and estimated daily discharges, which are poor. Flow regulated by many small reservoirs. Some water imported from Leon Lake in Plateau Creek drainage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 892 ft<sup>3</sup>/s, June 15, 1995, gage height, 3.79 ft; maximum gage height, 5.10 ft, Apr. 13, 1958 (ice jam); minimum daily, 0.80 ft<sup>3</sup>/s, Jan. 15, 1977.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 167 ft<sup>3</sup>/s, May 9, gage height, 3.70 ft; minimum daily, 11 ft<sup>3</sup>/s, Oct. 21.

## DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18							48	93	46	e32	39
2	22							58	99	38	e43	39
3	19							63	100	33	52	48
4	20							75	98	29	64	52
5	18							98	102	27	65	50
6	17							e108	103	27	68	43
7	16							107	104	36	66	42
8	15							99	104	36	63	33
9	15							112	107	38	41	32
10	24							104	102	39	39	22
11	24							98	119	39	38	19
12	23							75	112	35	37	19
13	20							62	109	34	33	20
14	20							64	95	30	33	20
15	18							67	94	32	32	24
16	17							82	87	50	31	24
17	14							88	73	44	33	41
18	14							93	73	43	42	41
19	13							106	71	47	41	53
20	12							108	69	45	36	61
21	11						29	102	69	36	37	46
22							25	102	67	35	35	33
23							23	117	73	38	31	32
24							22	115	65	38	31	30
25							26	109	48	37	34	27
26							33	111	48	41	33	25
27							44	115	49	41	47	25
28							57	118	67	38	46	24
29							54	117	66	36	46	31
30							50	109	53	35	37	32
31								101		e33	37	
TOTAL								2,931	2,519	1,156	1,303	1,027
MEAN								94.5	84.0	37.3	42.0	34.2
MAX								118	119	50	68	61
MIN								48	48	27	31	19
AC-FT								5,810	5,000	2,290	2,580	2,040

e Estimated.

## 09143500 SURFACE CREEK AT CEDAREDGE, CO

 $LOCATION.--Lat~38°54'06", long~107°55'14", in~SW^{1}_{4}SE^{1}_{4}~sec. 20,~T.13~S.,~R.94~W.,~Delta~County,~Hydrologic~Unit~14020005, on~left~bank~at~Cedaredge,~700~ft~east~of~State~Highway~65,~and~8.5~mi~upstream~from~mouth.$ 

DRAINAGE AREA.--39.0 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1916 to September 1999. October 1999 to current year (seasonal records only). Monthly discharge only for some periods, published in WSP 1313. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09143500

REVISED RECORDS .-- WRD CO-83-2: Drainage area.

GAGE.—Water-stage recorder with satellite telemetry and concrete control. Elevation of gage is 6,220 ft above NGVD of 1929, from topographic map. Prior to June 8, 1917, nonrecording gage at present site at datum 0.50 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by diversions to and from nearby streams, many small storage reservoirs, diversions for irrigation, and return flow from irrigated areas.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,190 ft<sup>3</sup>/s, May 13, 1941, gage height, 2.50 ft from rating curve extended above 640 ft<sup>3</sup>/s; maximum gage height, 3.10 ft, May 21, 1993; minimum daily, no flow at times some years.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge during period of operation, 130 ft<sup>3</sup>/s, May 5, gage height, 1.81 ft; minimum daily, 2.8 ft<sup>3</sup>/s, Oct. 31.

# DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES AY OCT NOV DEC JAN FEB MAR APR MAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11						40	46	52	34	15	19
2	15						42	51	54	27	28	21
3	15						42	67	53	24	29	24
4	17						42	84	51	22	39	30
5	14						60	94	55	21	40	30
6	14						52	91	58	19	29	24
7	13						45	83	59	22	23	22
8	11						55	76	58	21	21	22
9	9.9						63	69	54	19	16	21
10	12						50	67	54	18	16	19
11	11						41	69	53	18	17	16
12	9.9						37	e54	48	16	18	15
13	6.5						42	e47	48	15	14	14
14	5.7						52	e48	49	18	14	13
15	8.4						52	e50	48	20	14	17
16	10						58	e54	50	25	11	18
17	8.8						e61	57	48	24	11	22
18	10						54	64	49	24	17	21
19	10						41	70	48	20	16	33
20	8.6						e39	63	46	15	16	57
21	8.2						e34	58	43	15	19	47
22	9.7						e29	57	e41	18	18	33
23	9.1						26	70	36	19	16	30
24	9.9						22	65	34	20	16	29
25	11						26	57	28	17	18	24
26	10						34	63	30	19	17	22
27	9.5						49	67	e31	21	16	20
28	8.1						61	65	e37	18	16	18
29	7.9						63	68	36	16	15	25
30	7.2						60	59	34	17	15	28
31	2.8							55		16	15	
TOTAL	314.2						1,372	1,988	1,385	618	585	734
MEAN	10.1						45.7	64.1	46.2	19.9	18.9	24.5
MAX	17						63	94	59	34	40	57
MIN	2.8						22	46	28	15	11	13
AC-FT	623						2,720	3,940	2,750	1,230	1,160	1,460

e Estimated.

## 09144250 GUNNISON RIVER AT DELTA, CO

LOCATION.--Lat 38°45′11″, long 108°04′40″, in NW  $^1\!\!/_4$ NW  $^1\!\!/_4$  sec.13, T.15 S., R.96 W., Delta County, Hydrologic Unit 14020005, in Confluence Park on left bank, 0.7 mi downstream from U.S. Highway 50 bridge at north edge of Delta.

DRAINAGE AREA.--5,628 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1976 to current year. Gage-height records collected at this site 1912-77 (flood seasons only) are in reports of the National Weather Service. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09144250

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 4,910 ft above NGVD of 1929, from topographic map. Prior to May 1976 nonrecording gage at site 0.7 mi upstream at datum 4.52 ft higher. June 1, 1976 to Mar. 19, 1998 water-stage recorder at site 0.7 mi upstream at datum 4.52 ft higher.

REMARKS.—No estimated daily discharges. Records good. Natural flow of stream affected by transmountain and transbasin diversions, storage reservoirs, power developments, and many diversions for irrigation. Auxillary gage established 200 ft downstream from present site to collect streamflow data during bridge construction at principal site then in use, June 27, 1991 to September 30, 1992.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height observed, 13.5 ft, June 6, 1957, from National Weather Service wire-weight gage at site 0.7 mi upstream, at datum 4.52 ft higher (discharge not determined).

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES DAY OCT NOV DEC IAN FEB MAR APR MAY IUN IUI. AUG SEP												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	511	528	511	472	463	499	1,160	1,150	1,010	716	744	666	
2	536	511	510	476	450	488	1,230	1,000	933	647	740	667	
3	595	519	503	502	455	492	1,310	1,040	1,030	576	747	718	
4	638	514	491	476	469	490	1,290	1,260	1,240	555	728	848	
5	621	476	493	420	463	490	1,690	1,520	1,410	559	724	930	
6	610	469	499	437	442	477	1,710	1,960	1,540	507	753	920	
7	619	476	502	485	436	471	1,580	2,200	1,640	576	724	892	
8	602	479	521	531	452	470	1,760	2,300	1,580	688	712	817	
9	569	467	515	492	447	480	2,040	2,310	1,440	724	705	804	
10	563	508	486	506	442	519	2,110	2,400	1,260	755	688	810	
11	578	525	468	501	451	539	1,850	2,470	1,080	822	661	805	
12	591	508	491	491	456	553	1,660	2,200	901	824	675	767	
13	599	513	466	489	462	572	1,470	1,910	844	792	708	782	
14	589	530	473	489	477	589	1,360	1,620	852	816	716	745	
15	589	545	522	491	479	591	1,330	1,360	916	831	719	658	
16	592	528	467	473	473	582	1,110	1,240	944	834	726	649	
17	578	520	461	455	472	561	1,110	1,320	914	860	733	653	
18	566	515	474	451	484	576	1,090	1,470	855	908	767	661	
19	553	491	495	444	495	597	1,010	1,810	818	877	745	753	
20	542	487	482	454	520	680	866	2,210	789	750	762	884	
21	548	495	487	451	519	809	795	2,090	855	734	724	1,270	
22	550	503	495	449	531	930	795	1,980	895	724	722	1,200	
23	556	480	480	447	519	1,150	851	1,690	740	736	714	1,040	
24	549	440	464	450	508	1,320	795	1,490	628	833	683	961	
25	577	455	463	464	506	1,520	766	1,420	604	853	663	989	
26 27 28 29 30 31	556 575 584 564 571 584	496 487 456 465 503	477 477 443 464 479 475	465 465 471 457 456 472	502 498 544 532	1,630 1,540 1,340 1,160 1,100 1,040	741 720 873 971 1,220	1,360 1,330 1,350 1,450 1,410 1,190	640 668 642 669 645	838 827 834 786 736 727	641 644 663 674 663 660	967 940 919 1,040 1,360	
TOTAL	17,855	14,889	15,034	14,582	13,947	24,255	37,263	51,510	28,982	23,245	21,928	26,115	
MEAN	576	496	485	470	481	782	1,242	1,662	966	750	707	870	
MAX	638	545	522	531	544	1,630	2,110	2,470	1,640	908	767	1,360	
MIN	511	440	443	420	436	470	720	1,000	604	507	641	649	
AC-FT	35,420	29,530	29,820	28,920	27,660	48,110	73,910	102,200	57,490	46,110	43,490	51,800	
MEAN	1,318	1,420	1,481	1,467	1,496	1,751	2,297	4,274	3,743	2,016	1,147	1,169	
MAX	2,833	3,156	3,103	3,349	3,381	3,744	6,641	11,090	13,520	10,110	2,752	2,496	
(WY)	(1987)	(1987)	(1987)	(1985)	(1985)	(1997)	(1985)	(1984)	(1984)	(1995)	(1984)	(1986)	
MIN	398	422	402	386	384	450	366	411	331	275	269	335	
(WY)	(1978)	(2003)	(2003)	(2003)	(2003)	(2003)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	
SUMMAR	RY STATIST	TCS		FOR 2003 CA	LENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 197	76 - 2004	
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE 50 PERCE	MEAN ANNUAL M ANNUAL M DAILY ME DAILY ME	MEAN AN AN Y MINIMUN OW 'AGE AC-FT) DS DS	Л	306,383 839 4,540 295 362 607,700 1,300 571 385	Jun Apr Feb	10	289,66 79 2,47 42 44 2,65 574,40 1,41 64	70 May 20 Jan 47 Feb 50 May 3.47 May 00	5 6 11	4,6 20,3 a25,5 1,436,6 3,9	208 A 215 A 500 J a13.15 J	1984 1990 un 7, 1984 ug 11, 1977 ug 10, 1977 un 7, 1984 un 7, 1984	

a At site 0.7 mi upstream, at datum 4.52 ft higher.

## 09146020 UNCOMPAHGRE RIVER NEAR OURAY, CO

 $LOCATION.--Lat~38^{\circ}02'36", long~107^{\circ}40'57", in~SE^{1}_{/4}SE^{1}_{/4}~sec. 24, T.44~N., R.8~W., Ouray~County, Hydrologic~Unit~14020006, on~right~bank~at~downstream~side~of~foot~bridge,~0.4~mi~downstream~from~Bridalveil~Creek,~and~1.6~mi~north~of~Ouray.$ 

DRAINAGE AREA.--77.0 mi<sup>2</sup>.

 $PERIOD\ OF\ RECORD. -- April\ 2001\ to\ current\ year.\ For\ a\ complete\ listing\ of\ historical\ data\ available\ for\ this\ site,\ see\ http://waterdata.usgs.gov/co/nwis/inventory/\\ ?site\_no=09146020$ 

GAGE.--Water-stage recorder with satellite telemetry, and crest-stage gage. Elevation of gage is 7,600 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for the period Dec. 3 to Feb. 10 which is fair and estimated daily discharges, which are poor. Slight regulation of low flow by power plant at Ouray. One small diversion above station for irrigation below station.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP												
NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
36 41 45 39 37	32 30 29 29 29	25 25 24 25 22	e19 e18 e19 e20 e20	20 23 23 23 21	96 97 98 97 116	109 115 158 238 311	324 400 484 566 611	190 185 169 151 138	80 79 77 72 83	32 31 33 186 85		
36 37 37 37 38	29 29 29 29 31	26 25 24 25 26	e19 e21 e20 e19 e20	20 24 34 44 44	108 120 111 113 96	394 465 474 489 530	679 781 752 637 518	147 150 143 139 132	76 67 63 60 59	69 61 56 53 86		
38 36 37 36 33	30 28 26 28 25	27 27 27 26 25	23 23 21 21 21	48 53 53 51 49	89 78 81 81 79	461 341 243 184 190	390 348 335 435 450	129 121 123 121 123	54 52 50 49 48	83 75 78 74 66		
34 34 31 34 36	25 27 28 29 30	25 23 22 22 22 23	21 23 24 22 22	46 51 64 83 102	89 102 103 91 85	273 352 430 560 597	415 369 320 353 355	140 133 165 139 173	47 50 52 80 55	61 58 56 190 290		
34 30 27 33 33	29 29 28 30 28	21 19 19 19 18	24 23 21 22 21	106 103 95 111 134	82 78 77 71 73	538 453 393 376 380	315 263 240 240 235	135 117 177 144 120	49 59 50 46 40	247 166 153 156 129		
32 30 29 29 33	26 27 23 24 26 25	e17 e20 e19 e18 e19 e20	22 22 20 21	124 104 80 71 72 85	82 101 113 112 101	402 465 552 534 351 293	218 201 194 189 179	119 128 121 101 86 82	39 38 37 35 33 32	106 97 103 122 101		
45 27 2,070	867 28.0 32 23 1,720	703 22.7 27 17 1,390	612 21.1 24 18 1,210	1,961 63.3 134 20 3,890	2,820 94.0 120 71 5,590	11,651 376 597 109 23,110	11,796 393 781 179 23,400	4,241 137 190 82 8,410	1,711 55.2 83 32 3,390	3,103 103 290 31 6,150		
						, ,	211	102	50.0	82.6		
34.7 (2004) 27.6	24.9 28.0 (2004) 23.2 (2002)	20.8 22.7 (2004) 19.6 (2002)	21.1 (2004) 18.8 (2002)	63.3 (2004) 32.5 (2003)	98.9 (2002) 85.2 (2003)	408 (2003) 179 (2002)	393 (2004) 126 (2002)	138 (2001) 43.6 (2002)	76.4 (2001) 34.4 (2002)	110 (2003) 48.1 (2001)		
ISTICS		FOR 2003 CA	LENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 200	1 - 2004		
L MEAN MEAN MEAN DAY MINIMU! FLOW STAGE F (AC-FT) EEDS EEDS	М	39,811 109 1,100 15 16 78,970 246 53	Feb	10	78 e1 1,01 83,41 34	15 17 Jan 19 Jan 10 Ju 10 Ju 10 Ju 10 Ju 10 Ju 10 Ju 10 Ju	n 26 n 23 l 20	1, · 1, · 68, ·	59.1 100 Ma 15 Fe 16 Fe 400 Ma 5.74 Ma 340 202 44	2004 2002 29 29, 2003 b 10, 2003 b 6, 2003 by 28, 2003 by 28, 2003		
	36 41 45 39 37 36 37 37 37 38 38 38 38 36 37 36 33 34 34 31 34 36 37 36 33 32 30 29 29 29 33 1,042 34,7 45 27 2,070  IONTHLY MEA 45 27 32.0 34.7 45 32.0 34.7 45 45 45 45 47 45 47 48 47 48 48 48 48 48 48 48 48 48 48 48 48 48	36 32 41 30 45 29 39 29 37 29 36 29 37 29 37 29 37 29 38 31 38 30 36 28 37 26 36 28 37 26 36 28 37 26 36 28 37 26 36 30 34 25 34 27 31 28 34 27 31 28 34 29 36 30 34 29 37 29 37 29 37 29 38 31 38 30 36 28 37 26 36 28 37 26 36 28 37 26 36 28 37 26 36 28 37 26 36 28 37 26 36 28 37 26 36 28 37 26 36 28 37 26 38 37 26 38 37 26 39 27 28 33 30 33 28 32 26 30 27 29 23 29 24 33 26 25 1,042 867 34.7 28.0 45 32 27 23 2,070 1,720 IONTHLY MEAN DATA FOR SET	NOV DEC JAN  36 32 25 41 30 25 45 29 24 45 29 24 39 29 25 37 29 22  36 29 26 37 29 25 37 29 25 37 29 25 38 31 26 38 30 27 36 28 27 37 26 27 36 28 27 37 26 27 36 28 26 33 25 25  34 25 25 34 27 23 31 28 22 34 29 22 36 30 23  34 29 21 30 29 19 27 28 19 33 30 19 33 28 18  32 26 e17 30 27 e20 29 23 e19 29 24 e18 33 26 e19 29 23 e19 29 24 e18 33 26 e19 29 29 24 e18 31 7 e2002 29 23 e19 29 24 e18 33 26 e19 29 24 e18 33 26 e19 29 29 24 e18 31 7 28.0 22.7 45 32 27 27 23 17 2,070 1,720 1,390  IONTHLY MEAN DATA FOR WATER YER 20 204.9 20.8 205.0 20.9 207.0 1,720 1,390  IONTHLY MEAN DATA FOR WATER YER 20 20.9 20.9 20.9 20 20.9 20.9 20.9 20.9 20.9 20.9 20.9 20	NOV DEC JAN FEB  36 32 25 e19 41 30 25 e18 45 29 24 e19 39 29 25 e20 37 29 22 e20 36 29 26 e19 37 29 25 e21 37 29 25 e21 37 29 25 e21 37 29 25 e19 38 31 26 e20 38 30 27 23 36 28 26 21 33 25 25 21 34 25 25 25 21 34 27 23 35 28 22 24 34 29 21 24 30 23 22 34 29 21 24 30 29 25 e21 31 28 22 24 34 27 23 23 31 28 22 24 34 29 21 24 30 29 19 23 27 28 19 21 33 26 e19 33 30 27 e20 29 21 24 30 29 19 23 27 28 19 21 33 32 6 e19 33 32 6 e19 29 24 e18 21 33 26 e19 29 24 e18 21 33 26 e19 29 24 e18 21 33 26 e19 29 23 e19 20 29 24 e18 21 33 26 e19 29 23 e19 20 29 23 e19 20 29 24 e18 21 33 26 e19 29 24 e18 21 33 26 e19 29 21 24 30 27 e20 22 29 23 e19 20 29 23 e19 20 29 21 e10 29 24 e18 21 33 26 e19 20 22 29 23 e19 20 29 21 e10 29 24 e18 21 33 26 e19 20 22 29 23 e19 20 29 24 e18 21 33 26 e19 20 22 21 24 e18 21 33 26 e19 20 22 21 24 e18 21 33 26 e19 20 22 21 24 e18 21 33 26 e19 20 22 21 24 e18 21 33 26 e19 20 22 21 24 e18 21 33 26 e19 20 22 21 24 e18 21 33 26 e19 20 22 21 24 e18 21 33 26 e19 20 22 21 24 e18 21 33 26 e19 20 22 21 24 e18 21 33 26 e19 20 22 21 24 e18 21 33 26 e19 20 22 21 24 e18 21 33 26 e19 20 22 21 23 27 24 24 e18 21 33 26 e19 20 21 21 24 e18 21 33 26 e19 20 22 21 23 27 24 24 e18 21 33 26 e19 20 20 21 20 22 22 22 23 23 27 24 24 e18 21 33 26 e19 20 20 21 20 22 21 20 23 21 10 2	NOV DEC JAN FEB MAR  36 32 25 e19 20 41 30 25 e18 23 45 29 24 e19 23 37 29 22 e20 21  36 29 26 e19 20 37 29 25 e21 24 37 29 25 e20 34 37 29 25 e20 23 37 29 26 e19 20 37 29 25 e20 34 38 31 26 e20 34 38 31 26 e20 44 38 38 31 26 e20 44 38 36 28 27 23 53 37 26 27 21 53 36 28 26 21 51 36 28 26 21 51 37 29 24 e20 34 38 31 26 e20 44 38 30 27 23 48 36 38 27 23 53 37 26 27 21 53 36 28 26 21 51 31 28 26 21 51 33 25 25 25 21 49 34 25 25 25 21 49 34 27 23 23 53 36 28 26 21 51 31 28 22 24 64 34 29 22 22 28 36 30 23 22 102 34 29 21 24 106 30 29 19 23 103 27 28 19 21 9 3 103 27 28 19 21 9 3 103 27 28 19 21 9 23 103 27 28 19 21 9 21 33 3 26 e17 22 124 30 27 e20 22 104 31 33 26 e19 72 25 e20 85  1,042 867 703 612 1,961 33 26 e19 72 25 e20 85  1,042 867 703 612 1,961 33 26 e19 72 25 e20 85  1,042 867 703 612 1,961 33 3 26 e19 72 25 e20 85  1,042 867 703 612 1,961 33 3 26 e19 72 25 e20 85  1,042 867 703 612 1,961 33 3 26 e19 72 25 e20 85  1,042 867 703 612 1,961 33 3 26 e19 72 25 e20 85  1,042 867 703 612 1,961 33 3 26 e19 72 25 e20 85  1,042 867 703 612 1,961 33 3 26 e19 72 25 e20 85  1,042 867 703 612 1,961 33 3 26 e19 72 25 e20 85  1,042 867 703 612 1,961 33 3 26 e19 72 25 e20 85  1,042 867 703 612 1,961 33 3 26 e19 72 25 e20 85  1,042 867 703 612 1,961 33 3 26 e19 72 25 e20 85  1,042 867 703 612 1,961 33 3 26 e19 72 25 e20 85  1,042 867 703 612 1,961 34 53 32 27 24 134 35 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e Estimated.

## 09146200 UNCOMPAHGRE RIVER NEAR RIDGWAY, CO

LOCATION.--Lat 38°11'02", long  $107^{\circ}44'43$ ", in SW $^{1}_{4}$ NE $^{1}_{4}$  sec.4, T.45 N., R.8 W., Ouray County, Hydrologic Unit 14020006, on right bank at downstream side of bridge, 0.2 mi downstream from Dry Creek, 0.5 mi upstream from Dallas Creek, and 2.3 mi north of Ridgway.

PERIOD OF RECORD.--October 1958 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site no=09146200

REVISED RECORDS .-- WSP 2124: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Datum of gage is 6,877.58 ft above NGVD of 1929, (levels by U.S. Bureau of Reclamation). REMARKS.--No estimated daily discharges. Records good. Diversions for irrigation upstream from station.

### DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES DAY OCT NOV DEC JUN JUL AUG SEP JAN FEB MAR APR MAY Q 76 135 243 522 58 59 73 42 ---2,390 TOTAL 1,697 1,417 3,305 1.853 1.306 3,272 4,362 12,432 14,451 7,363 3.952 61.8 MEAN 77.1 54.7 45.7 45.0 MAX MIN 4,740 3,680 3,370 2,810 2,590 6,490 6,560 AC-FT 8,650 24,660 28,660 14,600 7,840 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 -2004, BY WATER YEAR (WY) MEAN 87.6 67.0 51.9 44.6 45.3 60.3 MAX 94.4 67.3 61.5 61.5 (1971) (1984) (1985)(1970)(WY) (1971)(1997)(1995)(2004)(1985)(1984)(1983)(1995)MIN 57.3 48.8 35.8 33.132.0 40.5 57.1 47.5 52.9 67.5 (1973)(1977)(WY) (2002)(1990)(1977)(1977)(1990)(1964)(2002)(2002)(2002)(1959)SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1959 - 2004 ANNUAL TOTAL 49,672 57,800 ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN 72.6 1,220 Jun 24, 1983 HIGHEST DAILY MEAN May 29 Jun 8 1.740 Jan 13, 1963 LOWEST DAILY MEAN Mar 2 Jan 29 ANNUAL SEVEN-DAY MINIMUM Feb 28 Jan 29 Feb 13, 1990 MAXIMUM PEAK FLOW Jun 8 a2,100 Jun 24, 1983 MAXIMUM PEAK STAGE 4.45 Jun 24, 1983 Jun ANNUAL RUNOFF (AC-FT) 98,520 114,600 118,500 79 10 PERCENT EXCEEDS

50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

a From rating curve extended above 1800 ft<sup>3</sup>/s.

## 09147000 DALLAS CREEK NEAR RIDGWAY, CO

LOCATION.--Lat 38°10'40", long 107°45'28", on line between sec.4 and 5, T.45 N., R.8 W., Ouray County, Hydrologic Unit 14020006, on right bank 20 ft downstream from county road bridge, 1.5 mi upstream from mouth, and 1.5 mi northwest of Ridgway.

DRAINAGE AREA.--97.2 mi<sup>2</sup>.

PERIOD OF RECORD.--March 1922 to October 1927, October 1955 to September 1971, October 1979 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09147000

REVISED RECORDS.--WSP 1924: 1960. WDR CO-88-2: Drainage area.

GAGE.--Water stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 6,980 ft above NGVD of 1929, from topographic map. Mar. 1, 1922 to Oct. 31, 1927, nonrecording gage at different datum.

REMARKS.—Records good except for June 4-30 and July 12-29, which are fair, and estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 4,500 acres upstream from and 700 acres downstream from station. One small ditch imports water from Leopard Creek (Dolores River Basin) to drainage upstream from station.

					R YEAR OC		ET PER SECC TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	14 21 25 24 24	28 29 33 27 26	e25 25 e24 e23 e22	e17 e17 e17 e17 e16	e14 e13 e13 e14 e14	17 16 17 16 16	40 41 35 40 64	22 20 18 16 13	8.0 8.0 13 33 43	17 16 15 15	14 15 15 13 18	8.2 7.8 4.8 14 13
6 7 8 9 10	22 21 22 26 24	26 26 25 25 28	20 20 20 20 20 e19	e18 e16 e15 e16 e18	e13 e14 e13 e12 e14	16 18 20 22 25	46 60 55 78 68	11 11 20 23 27	59 77 105 97 56	7.6 9.1 9.9 9.8 12	16 14 13 11 10	8.8 9.6 11 11 16
11 12 13 14 15	24 23 24 25 27	27 28 28 29 29	e19 e18 e17 e19 e17	e17 e18 e18 e18 e17	e16 e16 e16 e16 e16	27 30 33 32 34	64 50 39 36 31	27 18 7.6 4.4 3.4	48 35 31 35 40	13 18 16 20 21	7.1 7.0 6.0 6.7 3.6	19 17 21 25 25
16 17 18 19 20	24 28 27 27 27	30 30 28 31 29	e18 e19 e20 e20 e18	e16 e16 e16 e15 e14	e16 e16 12 11	26 25 25 29 36	28 27 28 23 20	3.4 5.5 3.4 7.3	31 27 23 21 20	28 39 42 49 34	3.2 5.3 6.8 12 14	24 23 25 40 68
21 22 23 24 25	27 24 23 23 22	28 e25 e24 e26 27	e18 e17 e17 e17 e18	e14 e13 e15 e15 e13	13 14 14 14 15	40 47 48 72 76	19 23 25 27 29	12 13 11 8.1 8.4	22 18 11 12 18	39 34 32 39 40	13 14 12 10 10	86 64 48 39 38
26 27 28 29 30 31	21 23 25 24 25 28	28 e25 e25 e25 e25	e17 e17 e16 e16 e17 e17	e13 e14 e14 e12 e12 e13	17 17 18 19 	64 51 38 34 31 35	24 23 23 19 22	9.9 11 9.5 19 16 10	26 15 15 16 18	29 42 35 20 17 15	10 11 9.9 7.7 5.7 6.2	36 36 38 43 43
TOTAL MEAN MAX MIN AC-FT	744 24.0 28 14 1,480	820 27.3 33 24 1,630	590 19.0 25 16 1,170	480 15.5 18 12 952	421 14.5 19 11 835	1,016 32.8 76 16 2,020	1,107 36.9 78 19 2,200	401.9 13.0 27 3.4 797	981.0 32.7 105 8.0 1,950	744.4 24.0 49 7.6 1,480	320.2 10.3 18 3.2 635	862.2 28.7 86 4.8 1,710
						,	VATER YEAR	` ′	50.0	71.6	56.5	20.4
MEAN MAX (WY) MIN (WY)	25.5 65.1 (1985) 2.07 (1957)	24.4 39.1 (1926) 14.4 (1957)	20.1 33.9 (1924) 13.4 (1994)	17.8 32.0 (1924) 9.61 (1980)	18.6 32.0 (1924) 11.9 (1994)	25.7 59.4 (1985) 14.8 (1980)	57.0 183 (1985) 4.13 (1990)	48.3 249 (1984) 0.67 (1981)	58.9 171 (1984) 1.49 (2002)	71.6 230 (1983) 0.75 (2002)	56.7 141 (1983) 3.95 (2002)	39.4 117 (1927) 2.58 (1956)
SUMMAI	RY STATIST	ICS		FOR 2003 (	CALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 192	22 - 2004
ANNUAL TOTAL ANNUAL MEAN ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN HIGHEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 47 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS 112					20	10 15 b,c 16,84 4	23.2 25 Jun 3.2 Aug 5.0 Mag 66 Jun 63.65 Jun 10 10 10	n 8 g 16 y 13 n 9 n 9	a3,9 27,8	0.21 Jt 0.38 Ma 960 J d8.42 J 390 87 24	1984 1990 ay 3, 1924 an 19, 1981 ay 11, 1981 ul 31, 1999 ul 31, 1999	
90 PERCI	ENT EXCEEI	OS		1	2		1	.0			11	

e Estimated.

On basis of slope-area measurement of peak flow.

b From crest-stage gage.

Maximum gage height, 4.38 ft, Dec 18, backwater from ice. d From high water mark.

## 09147025 UNCOMPAHGRE RIVER BELOW RIDGWAY RESERVOIR, CO

LOCATION.--Lat 38°14'17", long 107°45'31", in NE\frac{1}{4}SE\frac{1}{4} sec.17, T.46 N., R.8 W., Ouray County, Hydrologic Unit 14020006, on right bank 1,600 ft upstream from Fisher Creek, 800 ft downstream from Ridgway Reservoir gate house, and 5.4 mi north of Ridgway.

DRAINAGE AREA.--265 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1988 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=09147025

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,650 ft above NGVD of 1929, from topographic map.

REMARKS .-- No estimated daily discharges. Records good. Diversions for irrigation by means of numerous canals downstream from station. Flow regulated by Ridgway Reservoir (capacity 84,591 acre-ft).

		YEAR OC	TOBER 2003	TO SEPTEM					
NOV DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
45 48 45 48 46 48 46 48 46 48	45 46 46 46 46	46 46 46 46 46	46 45 45 45 45	211 278 274 270 279	279 279 279 277 275	377 377 377 378 383	264 264 264 266 269	317 318 317 316 318	236 236 236 236 236
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,403 1,380 46.8 44.5 48 49 45 41 ,780 2,740	1,414 45.6 47 45 2,800 OR WATER YE	1,324 45.7 46 45 2,630 EARS 1989	2,206 71.2 111 45 4,380	8,345 278 284 211 16,550 VATER YEAR	10,795 348 461 274 21,410	11,111 370 453 261 22,040	10,404 336 371 264 20,640	9,467 305 360 214 18,780	3,982 133 236 94 7,900
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 48 44 44 46 45 111 279 377 379  49 37 377 261  40 31 380 1414 1324 2206 8,345 10,795 11,111  40 48 49 47 46 111 284 461 453  48 49 47 46 111 284 461 453  48 49 47 46 111 284 461 453  48 49 47 46 111 284 461 453  48 49 47 46 111 284 461 453  48 49 47 46 111 284 461 453  49 47 46 111 284 461 453  40 40 40 40 40 40 40 40 40 40 40 40 40 4	WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004	NOV DEC JAN FEB MAR APR MAY JUN JUL AUG  15 48 45 46 46 211 279 377 264 317  45 48 46 46 45 278 279 377 264 317  46 48 46 46 45 274 279 377 264 317  46 48 46 46 45 270 277 378 266 316  46 48 46 46 45 279 277 378 266 316  46 48 46 46 45 279 277 378 266 316  46 48 46 46 45 284 274 383 315 317  46 48 46 46 46 45 284 274 383 315 317  46 48 46 46 46 45 284 274 383 315 317  46 48 46 46 46 45 284 274 383 315 317  46 48 46 46 46 45 284 274 383 315 317  46 48 48 46 46 46 45 284 274 383 315 317  46 49 46 46 46 45 284 274 383 315 317  46 49 46 46 46 45 284 274 383 315 318  46 48 45 46 46 45 284 274 383 315 318  46 44 8 45 46 46 45 284 274 383 315 318  46 44 8 45 46 46 45 284 274 383 3115 318  46 44 8 45 46 45 284 274 383 3115 318  46 44 4 45 46 45 284 274 383 371 320  46 44 3 45 46 45 284 372 453 371 320  46 43 45 46 45 284 372 453 371 359  46 43 45 46 45 284 372 453 371 359  46 43 45 46 45 284 460 386 371 369  46 43 45 46 45 284 460 386 371 369  46 42 45 45 46 45 284 460 389 390 360  46 42 45 45 45 46 282 460 389 390 366  48 41 46 46 410 279 369 389 366 322  48 41 46 46 46 110 279 367 390 389 366 322  48 41 46 46 46 111 279 367 390 389 366 322  48 41 46 46 46 111 279 377 372 373 333 366 324  48 41 46 46 411 279 377 372 373 333 366 324  48 41 46 46 46 111 279 377 279 371 299 315 264  48 41 46 46 47 111 279 372 373 333 366 214  48 42 46 46 45 111 279 377 279 315 264  48 44 46 46 47 111 279 372 373 333 366 214  48 42 46 46 45 111 279 377 279 315 262  48 44 44 46 45 111 279 377 279 315 263  48 44 44 46 45 111 279 377 279 315 264  48 42 46 46 47 111 279 377 279 315 262  48 44 44 46 45 111 279 377 279 315 262  48 44 44 46 45 111 279 377 279 315 262  48 44 44 46 45 111 279 377 279 315 263  48 44 44 46 45 111 279 377 279 315 263  48 44 44 46 45 111 279 377 279 315 262  48 44 44 46 45 111 279 377 279 315 262  48 44 44 46 46 47 111 279 377 279 315 262  48 44 44 46 46 46 111 279 377 279 315 262  48 44 44 45 45 45 45 45 45 45 45 45 45 45

a Also occurred Mar 8-16, 23, 31, Apr 1, 8-18, 2003. b Maximum gage height, 3.63 ft, Jul 10, 1995.

## 09147500 UNCOMPAHGRE RIVER AT COLONA, CO

 $LOCATION.--Lat.\ 38^{\circ}19'53'', long\ 107^{\circ}46'44'', in\ NW^{1}_{\sqrt{4}}NW^{1}_{\sqrt{4}}\ sec.17,\ T.47\ N.,\ R.8\ W.,\ Ouray\ County,\ Hydrologic\ Unit\ 14020006,\ on\ right\ bank\ 75\ ft\ downstream\ from\ County\ highway\ crossing,\ 0.2\ mi\ north\ of\ Colona,\ and\ 1.0\ mi\ upstream\ from\ Beaton\ Creek.$ 

DRAINAGE AREA.--448 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1903 to November 1905, April to June 1906 (gage heights and discharge measurements only), October 1912 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as "near Colona" 1904-06, 1922-34. Statistical summary computed for 1986 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09147500

REVISED RECORDS.--WSP 1313: 1904. WDR CO-88-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 6,318.80 ft above NGVD of 1929. See WSP 1713 or 1733 for history of changes prior to Sept. 30,

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Ridgway Reservoir, 7.7 mi upstream, since 1986, total capacity 84,590 acre-ft. Diversions upstream from station for irrigation of about 2,600 acres downstream from station.

					YEAR OC		ET PER SECC TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	174 279 313 312 297	59 60 65 62 61	61 60 59 58 58	54 55 55 52 53	53 57 52 52 52	55 55 55 57 57	320 400 389 377 441	319 321 338 383 406	428 456 512 558 563	238 232 228 227 225	256 258 258 256 261	168 163 161 194 211
6 7 8 9 10	291 293 272 263 267	61 62 61 61 64	58 58 60 58 55	69 57 55 57 57	52 50 54 53 51	56 58 63 73 83	408 411 429 468 417	431 474 486 476 517	615 673 719 680 633	249 266 262 280 311	264 267 265 266 265	198 167 137 110 84
11 12 13 14 15	295 290 291 290 307	63 62 62 61 61	57 54 51 54 51	56 58 58 58 55	54 61 52 54 57	81 87 90 87 83	383 363 357 372 368	518 486 463 462 483	580 582 563 600 572	307 305 304 306 307	259 278 305 297 289	80 79 81 79 78
16 17 18 19 20	323 331 325 330 320	59 60 58 58 60	57 59 55 54 55	53 52 55 55 55	54 55 56 57 55	81 82 134 199 221	384 402 401 367 341	524 594 573 603 663	540 533 478 469 468	308 307 312 315 309	291 296 279 262 259	77 78 80 88 100
21 22 23 24 25	311 309 298 224 64	60 60 55 54 62	55 54 55 54 55	53 57 57 57 53	56 55 55 55 55	241 249 234 237 261	330 329 325 314 318	614 594 543 528 516	457 393 310 294 325	311 310 313 323 318	262 268 229 172 150	108 114 113 113 108
26 27 28 29 30 31	60 60 61 58 58	61 58 56 60 61	53 51 52 53 53 54	65 52 56 56 55 53	55 55 57 55 	267 257 223 206 183 188	313 319 334 331 339	510 521 574 620 495 440	367 374 329 273 244	289 270 272 265 256 255	149 173 195 195 185 172	104 102 103 104 101
TOTAL MEAN MAX MIN AC-FT	7,424 239 331 58 14,730	1,807 60.2 65 54 3,580	1,721 55.5 61 51 3,410	1,730 55.8 69 52 3,430	1,579 54.4 61 50 3,130	4,303 139 267 55 8,540	11,050 368 468 313 21,920	15,475 499 663 319 30,690	14,588 486 719 244 28,940	8,780 283 323 225 17,420	7,581 245 305 149 15,040	3,483 116 211 77 6,910
								` ′	(01	41.4	202	107
MEAN MAX (WY) MIN (WY)	WY) (1998) (1999) ( MIN 51.6 39.5		83.2 132 (1993) 34.5 (2003)	73.6 105 (1986) 31.8 (2003)	74.3 121 (1997) 31.9 (2003)	110 213 (1997) 44.5 (2003)	286 683 (1997) 62.6 (1990)	501 926 (1987) 160 (1988)	601 1,066 (1995) 184 (2002)	414 1,226 (1995) 141 (2002)	283 598 (1999) 114 (2002)	187 495 (1999) 52.3 (1989)
SUMMAR	Y STATISTI	ics		FOR 2003 CA	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 198	36 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE		I	65,162 179 1,540 29 30	May Feb Feb	23	5 86	7 9 Jun 60 Feb 2 Feb	7 4 1 8	3 1 1,9 b	25 A 29 S 230 .	1997 2002 Jul 11, 1995 pr 28, 1990 ep 24, 1989 Jul 12, 1995 Jul 12, 1995	
ANNUAL 10 PERCE 50 PERCE	RUNOFF (A NT EXCEED NT EXCEED NT EXCEED	.C-FT) OS OS		129,200 322 89 31			157,70 47 19 5	00 7 94	. 0	1		ui 12, 1793

a Average discharge for 76 years (water years 1904-1905, 1913-1986), 271 ft<sup>3</sup>/s, 196,300 acre-ft/yr, prior to completion of Ridgway Reservoir.
 b Minimum daily discharge for period of record, 12 ft<sup>3</sup>/s, Sep 19, 1956, and May 7, 1967.
 c Maximum discharge for period of record, 4,080 ft<sup>3</sup>/s, June 13-14, 1921, gage height unknown.

## 09149500 UNCOMPAHGRE RIVER AT DELTA, CO

 $LOCATION.--Lat~38^\circ 44'31", long~108^\circ 04'49", in~SW^{1}_{4}SW^{1}_{4} sec. 13, T.15~S., R.96~W., Delta~County, Hydrologic~Unit~14020006, on right bank~525~ft~downstream~from~5th~Street~bridge~at~west~edge~of~Delta~and~1.1~mi~upstream~from~mouth.$ 

DRAINAGE AREA.--1,115 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1903 to October 1931 (no winter records in most years), September 1938 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as "near Delta" 1907-24. Statistical summary computed for 1939 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09149500

REVISED RECORDS.--WSP 1243: 1904. WDR CO-88-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 4,926.49 ft above NGVD of 1929. Feb. 18, 1960 to Mar. 26, 1963, water-stage recorder at site 750 ft upstream at datum 3.43 ft higher. Mar. 27, 1963 to May 12, 1965, water-stage recorder at site 1,050 ft upstream at datum 6.08 ft higher. See WSP 1733 or 1924 for history of changes prior to Feb. 18, 1960.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by water diverted from Gunnison River (see record of diversion through Gunnison Tunnel published with station 09128000) and other adjacent basins. Flow regulated by Ridgway Reservoir, since 1986, total capacity 84,590 acre-ft. Diversions for irrigation of about 90,000 acres upstream from station and return flow from irrigated areas.

DISCHARGE, CUBIC FEET PER SECOND

				WATER		TOBER 2003 ILY MEAN V		IBER 2004				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	260 296 389 411 399	340 316 337 370 349	244 243 238 234 231	185 188 200 191 174	156 151 157 159 157	161 156 155 157 159	e168 e237 278 311 589	343 315 283 275 316	150 142 164 209 373	176 170 149 140 148	204 224 224 221 225	233 222 224 346 502
6 7 8 9 10	402 372 347 322 316	342 335 329 326 331	234 230 237 234 219	e182 e190 e188 181 201	150 147 155 143 146	155 154 157 164 175	566 352 541 538 729	354 310 322 309 303	440 365 329 222 188	133 130 139 138 143	254 251 250 229 208	427 419 438 437 425
11 12 13 14 15	318 316 313 316 332	326 315 317 314 304	218 213 205 209 221	185 181 180 189 183	147 147 148 148 158	179 178 179 176 176	518 439 335 274 210	241 244 249 201 194	145 153 149 161 153	168 168 131 125 128	191 153 180 200 198	421 403 403 338 316
16 17 18 19 20	330 309 313 310 315	295 290 283 280 281	199 e198 e202 210 205	177 174 169 168 172	149 150 153 163 173	176 172 178 245 201	251 256 289 269 177	178 188 191 226 304	175 194 179 173 153	126 144 175 163 149	200 212 271 268 295	332 338 326 405 517
21 22 23 24 25	308 306 314 320 286	282 273 265 255 266	206 206 194 192 190	168 159 158 161 164	173 178 172 167 168	209 224 153 216 293	168 178 305 295 321	272 177 160 154 165	146 149 138 119 118	155 152 162 232 243	305 370 389 323 261	739 1,070 869 737 674
26 27 28 29 30 31	279 305 366 408 400 367	265 256 243 247 247	193 188 179 174 199 191	151 160 161 157 158 156	168 170 189 174 	351 340 304 248 201 170	219 189 173 172 333	167 180 191 263 259 201	159 202 190 192 184	234 234 242 212 208 194	218 200 260 277 269 233	640 617 592 574 582
TOTAL MEAN MAX MIN AC-FT	10,345 334 411 260 20,520	8,979 299 370 243 17,810	6,536 211 244 174 12,960	5,411 175 201 151 10,730	4,616 159 189 143 9,160	6,162 199 351 153 12,220	9,680 323 729 168 19,200	7,535 243 354 154 14,950	5,814 194 440 118 11,530	5,211 168 243 125 10,340	7,563 244 389 153 15,000	14,566 486 1,070 222 28,890
STATISTI MEAN	CS OF MON 404	THLY MEAI 258	N DATA FO 170	OR WATER YE 141	EARS 1939 135	- 2004, BY W 166	ATER YEAF 303	R (WY) 492	542	312	289	393
MAX (WY) MIN (WY)	844 (1998) 131 (1978)	442 (1999) 125 (1950)	294 (1999) 111 (1943)	223 (1999) 70.9 (1943)	222 (1997) 66.5 (1943)	367 (1997) 80.7 (1951)	1,107 (1985) 51.8 (2003)	2,542 (1984) 92.2 (2002)	1,763 (1984) 82.3 (2002)	1,170 (1983) 82.3 (2002)	959 (1999) 93.7 (1956)	944 (1961) 123 (1956)
SUMMAR	Y STATIST	ICS		FOR 2003 CA	LENDAR	YEAR	FOR 200	4 WATER Y	'EAR	WATER	YEARS 193	39 - 2004
ANNUAL HIGHEST	SUMMARY STATISTICS ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN			73,829 202			92,41 25			$\epsilon$	801 688 155	1984 1951
LOWEST I ANNUAL MAXIMUI MAXIMUI	LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT)		Ī	1,230 15 23	Sep Apr Apr	12		8 Jul 9 Ju 0 Se 5.53 Se	p 22 n 25 nl 4 p 22 p 22	b5,8	115 A 23 A 800 Ma 8.85 Ma	ay 15, 1984 pr 12, 2003 pr 7, 2003 ay 15, 1984 ay 15, 1984
10 PERCE 50 PERCE	RUNOFF (A NT EXCEEI NT EXCEEI NT EXCEEI	OS OS		146,400 344 150 78			183,30 37 21 15	78 2		2	000 595 205 108	

e Estimated.

a Minimum daily discharge for period of record, no flow at times in 1908. Minimum daily determined since beginning of diversion through Gunnison Tunnel, 7.0 ft<sup>3</sup>/s, Jul 10-15, 17, 21, 24-28, 1910.

b From rating curve extended above 3,400 ft<sup>3</sup>/s.

## 09152500 GUNNISON RIVER NEAR GRAND JUNCTION, CO

LOCATION.--Lat 38°59'00", long 108°27'00", in NE $^1/_4$ SW $^1/_4$  of sec.14, T.2 S., R.1 E., Ute Meridian, Mesa County, Hydrologic Unit 14020005, on right bank 180 ft upstream from bridge on State Highway 141, 0.4 mi downstream from Whitewater Creek, 0.5 mi south of Whitewater, and 8 mi southeast of Grand Junction.

DRAINAGE AREA.--7,928 mi<sup>2</sup>.

PERIOD OF RECORD.—October 1894 to December 1895 (gage heights only), October 1896 to September 1899, October 1901 to October 1906, October 1916 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as "at Whitewater" 1901-06. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09152500

REVISED RECORDS.--WSP 509: Drainage area at former site. WSP 2124: Drainage area.

GAGE.—Water-stage recorder with satellite telemetry and crest-stage gage. Datum of gage is 4,628.12 ft above NGVD of 1929. See WSP 1733 or 1924 for history of changes prior to October 1959.

REMARKS.--Records good except for estimated daily discharge, which are poor. Records show flow that enters Colorado River from Gunnison River Basin except for about 60 ft<sup>3</sup>/s diverted downstream from gage during irrigation season. Natural flow of river affected by diversions for irrigation of about 233,000 acres upstream from station, storage reservoirs, and return flow from irrigated lands.

DISCHARGE, CUBIC FEET PER SECOND

					YEAR OC		ET PER SECC 3 TO SEPTEM /ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	901 908 1,070 1,170 1,210	1,110 980 974 1,010 978	828 830 823 807 797	e704 e701 e716 e727 633	e661 e648 e640 e660 e663	720 686 689 690 687	1,440 1,670 1,890 2,050 2,760	2,250 1,930 1,900 2,080 2,540	1,450 1,260 1,230 1,470 1,750	992 983 886 823 827	1,020 1,050 1,050 1,040 1,000	1,010 1,010 1,040 1,220 1,670
6 7 8 9 10	1,190 1,190 1,140 1,100 1,060	948 954 947 929 941	800 812 814 832 790	546 e663 e721 e761 e713	e627 e615 e644 e625 e613	674 665 663 671 699	3,020 2,570 2,920 2,970 3,470	2,900 3,150 3,240 3,300 3,320	2,080 2,160 2,080 1,880 1,650	819 775 870 934 971	1,050 1,090 1,060 1,050 1,010	1,640 1,540 1,500 e1,490 e1,460
11 12 13 14 15	1,050 1,080 1,080 1,080 1,120	982 946 953 960 973	761 757 744 731 773	e735 e724 e713 e704 e717	e613 e616 e627 e639 e672	731 749 760 782 791	3,100 2,720 2,400 2,160 2,050	3,480 3,320 2,920 2,500 2,080	1,460 1,220 1,110 1,050 1,110	1,040 1,090 1,050 993 1,020	942 903 930 982 989	e1,410 1,410 1,410 1,370 1,240
16 17 18 19 20	1,100 1,090 1,070 1,060 1,060	945 917 909 879 866	746 656 e697 e729 e755	e732 e723 e710 e685 e663	e687 e679 684 708 735	785 778 768 814 897	1,940 1,860 1,920 1,940 1,600	1,870 1,870 2,080 2,330 2,870	1,170 1,200 1,190 1,120 1,070	1,030 1,050 1,130 1,160 1,040	1,010 1,020 1,100 1,200 1,190	1,210 1,220 1,210 1,290 1,640
21 22 23 24 25	1,050 1,070 1,080 1,090 1,090	876 870 859 806 795	e738 760 759 733 724	e672 e686 676 664 e657	744 760 756 724 717	987 1,180 1,310 1,610 1,960	1,360 1,400 1,590 1,590 1,470	2,910 2,620 2,310 1,980 1,810	1,050 1,150 1,090 897 820	964 951 961 1,080 1,200	1,220 1,260 1,280 1,220 1,090	2,090 2,770 2,400 2,080 1,950
26 27 28 29 30 31	1,070 1,100 1,170 1,200 1,180 1,230	837 858 815 786 806	739 739 691 632 e694 e709	652 e656 e651 e661 e649 e653	708 711 749 774 	2,230 2,250 2,100 1,780 1,550 1,430	1,360 1,290 1,460 1,720 2,120	1,770 1,680 1,720 1,810 2,030 1,760	856 959 997 979 989	1,180 1,160 1,220 1,170 1,070 1,040	1,020 986 1,040 1,090 1,090 1,030	1,910 1,870 1,820 1,870 2,070
TOTAL MEAN MAX MIN AC-FT	34,059 1,099 1,230 901 67,560	27,409 914 1,110 786 54,370	23,400 755 832 632 46,410	21,268 686 761 546 42,190	19,699 679 774 613 39,070	33,086 1,067 2,250 663 65,630	61,810 2,060 3,470 1,290 122,600	74,330 2,398 3,480 1,680 147,400	38,497 1,283 2,160 820 76,360	31,479 1,015 1,220 775 62,440	33,012 1,065 1,280 903 65,480	47,820 1,594 2,770 1,010 94,850
				OR WATER YE				, ,		2.40=	4.200	4.205
MEAN MAX (WY) MIN (WY)	1,473 3,479 (1987) 268 (1935)	1,446 3,303 (1987) 497 (1899)	1,342 3,225 (1987) 500 (1899)	1,255 3,515 (1974) 500 (1899)	1,254 3,844 (1974) 500 (1899)	1,443 4,114 (1997) 500 (1903)	3,046 9,184 (1942) 580 (1977)	7,270 18,870 (1920) 698 (1977)	6,834 19,630 (1957) 577 (1934)	2,497 11,950 (1995) 165 (1934)	1,389 3,639 (1957) 153 (1934)	1,385 4,959 (1929) 267 (1934)
SUMMAI	RY STATIST	ICS		FOR 2003 CA	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 189	97 - 2004
ANNUAL HIGHEST LOWEST	SUMMARY STATISTICS ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN			434,915 1,192			445,86 1,21	8		5,1	556 187 338	1984 1934
LOWEST ANNUAL MAXIMU MAXIMU	LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT)			5,580 479 571 862,700	Jun Apr Feb	10	3,48 54 62 3,79 884,40	6 Jan 2 Feb 0 May 5.06 May	1 6 5 6 7 11		106 J 116 J 700 M: 14.95 M:	ay 23, 1920 ful 20, 1934 ful 14, 1934 ay 23, 1920 ay 23, 1920
10 PERCE 50 PERCE	ENT EXCEEI ENT EXCEEI ENT EXCEEI	OS OS		1,840 966 605			2,08 1,04 68	0 0		5,9 1,3	980 360 703	

e Estimated.

a Site and datum then in use, from rating curve extended above 22,000 ft<sup>3</sup>/s.

## 09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE

 $LOCATION.--Lat~39°07'58", long~109°01'35", in~SE^{1}_{4}NW^{1}_{2}~sec.5, T.11~S., R.104~W., Mesa~County, Hydrologic~Unit~14010005, on~right~bank~0.5~mi~downstream~from~McDonald~Creek, 1.7~mi~upstream~from~Colorado-Utah~State~line, and~12~mi~southwest~of~Mack.$ 

DRAINAGE AREA.--17,843 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1951 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=09163500

REVISED RECORDS .-- WRD Colo. 1974: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 4,325 ft above NGVD of 1929, from topographic map. May 1951 to October 1979, water-stage recorder at site 5.7 mi upstream at different datum. October 1979 to March 1995, water stage recorder at site 0.2 mi downstream at same datum.

REMARKS .-- No estimated daily discharges. Records good. Natural flow of stream affected by transmountain diversions, storage reservoirs, power development, and diversions for irrigation. (Records include all return flow from irrigated areas).

## DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3	2,920 2,890 2,990	3,270 3,180 3,050	2,590 2,720 2,740	2,350 2,470 2,570	2,210 2,170 2,040	2,310 2,150 2,080	3,300 3,280 3,520	4,320 4,140 3,870	5,910 5,060 4,580	3,710 4,190 3,820	2,460 2,470 2,400	2,210 2,170 2,200
4 5	3,230 3,390	2,960 3,060	2,630 2,560	2,530 2,250	2,100 2,110	2,090 2,160	4,010 4,510	3,930 4,660	4,730 5,540	3,560 3,330	2,340 2,430	2,510 3,730
6 7	3,410 3,350	2,920 3,060	2,490 2,490	1,640 1,370	2,110 2,000	2,170 2,050	5,180 4,920	5,730 6,990	6,440 7,530	3,060 2,850	2,670 2,680	3,730 3,590
8 9	3,310 3,200	3,090 2,870	2,630 2,630	2,110 2,420	1,910 1,950	2,030 2,080	5,010 5,110	7,970 8,540	8,220 8,390	2,700 2,740	2,600 2,510	3,500 3,300
10	3,130	2,980	2,570	2,540	1,990	2,140	5,590	8,760	7,980	2,710	2,340	3,240
11 12	3,120 3,170	3,120 2,990	2,430 2,280	2,340 2,250	1,980 1,930	2,260 2,300	5,840 5,180	8,960 9,230	7,410 6,400	2,630 2,610	2,200 2,030	3,180 3,160
13 14	3,300 3,360	2,880 2,910	2,320 2,310	1,970 1,770	1,840 1,850	2,350 2,340	4,530 4,010	8,540 7,370	5,480 4,860	2,520 2,340	2,080 2,080	3,060 2,970
15	3,360	2,920	2,360	1,940	1,850	2,390	3,700	6,200	4,860	2,220	2,150	2,810
16 17	3,410 3,360	2,860 2,780	2,530 2,230	2,180 2,290	2,020 2,080	2,430 2,420	3,550 3,260	5,360 5,030	5,330 5,410	2,340 2,740	2,150 2,190	2,720 2,740
18 19	3,320 3,270	2,760 2,720	1,990 2,100	2,330 2,240	2,080 2,170	2,340 2,290	3,320 3,610	5,180 5,630	5,290 5,070	3,170 3,410	2,300 2,570	2,760 3,020
20	3,230	2,720	2,100	2,230	2,330	2,430	3,430	6,840	4,920	3,270	2,660	3,800
21 22	3,220 3,240	2,680 2,720	2,390 2,470	2,260 2,250	2,320 2,300	2,610 3,060	3,000 2,990	8,290 8,390	4,870 4,830	3,090 2,870	2,940 3,100	4,250 5,560
23	3,190	2,720	2,560	2,160	2,290	3,320	3,580	8,010	4,720	2,760	3,160	5,300
24 25	3,160 3,220	2,620 2,370	2,520 2,300	2,020 2,030	2,270 2,190	3,640 3,930	3,570 3,260	7,130 6,660	3,940 3,540	2,660 2,850	3,000 2,770	4,520 4,020
26	3,190	2,290	2,210	1,920	2,250	4,350	3,150	6,320	3,490	3,030	2,560	3,930
27 28	3,170 3,240	2,640 2,630	2,250 2,340	1,880 2,040	2,210 2,330	4,820 4,810	2,920 2,770	6,070 6,150	3,660 3,700	2,890 2,970	2,380 2,290	3,710 3,450
29	3,190	2,530	2,040	2,080	2,450	4,380	3,020	6,380	3,630	2,890	2,380	3,490
30 31	3,160 3,220	2,440	1,960 2,190	2,230 2,280		3,840 3,500	3,870	7,410 7,000	3,490	2,710 2,550	2,460 2,330	3,880
TOTAL MEAN	99,920 3,223	84,670 2,822	74,120 2,391	66,940 2,159	61,330 2,115	87,070 2,809	116,990 3,900	205,060 6,615	159,280 5,309	91,190 2,942	76,680 2,474	102,510 3,417
MAX	3,410	3,270	2,740	2,570	2,450	4,820	5,840	9,230	8,390	4,190	3,160	5,560
MIN AC-FT	2,890 198,200	2,290 167,900	1,960 147,000	1,370 132,800	1,840 121,600	2,030 172,700	2,770 232,000	3,870 406,700	3,490 315,900	2,220 180,900	2,030 152,100	2,170 203,300
				R WATER YE	,				313,700	100,700	132,100	203,300
MEAN	3,973	3,980	3,548	3,325	3,382	3,825	5,751	13,780	16,610	7,551	3,871	3,678
MAX (WY)	7,672 (1987)	6,925 (1987)	5,993 (1986)	6,129 (1985)	5,996 (1985)	7,486 (1986)	15,600 (1985)	37,960 (1984)	43,830 (1957)	29,650 (1995)	10,190 (1983)	7,174 (1997)
MIN	1,916	2,363	1,980	1,871	1,815	1,984	1,631	2,283	2,431	1,662	1,350	1,361
(WY)	(1957)	(1978)	(2003)	(1964)	(1964)	(1964)	(1977)	(1977)	(2002)	(1977)	(1977)	(1956)
	RY STATIST	TICS		FOR 2003 CA	ALENDAR `	YEAR		4 WATER Y	EAR	WATER	YEARS 19	951 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN				1,371,010 3,756			1,225,76 3,34			6,1 13,4 2,4	70	1984 2002
HIGHEST	DAILY ME	AN		24,500	Jun		9,23			68,3	800 N	1ay 27, 1984
ANNUAL		Y MINIMUM	1	1,350 1,590	Apr Apr		1,37 1,91	0 Feb		1,1	.10	Sep 7, 1956 Sep 2, 1956
	JM PEAK FL JM PEAK ST						9,45	60 May 6.15 May		a69,8		1ay 27, 1984 1ay 27, 1984
ANNUAL	RUNOFF (A	AC-FT)		2,719,000			2,431,00	00	_	4,426,0	000	,, 1201
	ENT EXCEE! ENT EXCEE!			7,060 2,680			5,43 2,89			13,1 3,8		
90 PERCI	ENT EXCEE	DS		1,840			2,10			2,2		

a At site 0.2 mi downstream, at present datum.b From high-water mark.

## 09165000 DOLORES RIVER BELOW RICO, CO

LOCATION .-- Lat 37°38'20", long 108°03'35", Dolores County, Hydrologic Unit 14030002, on left bank at upstream side of Montelores bridge northwest of State Highway 145, at Dolores-Montezuma County line, 0.5 mi upstream from Ryman Creek, and 4.0 mi southwest of Rico.

DRAINAGE AREA.--105 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1951 to September 1996, October 1998 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09165000

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 8,422.23 ft above NGVD of 1929.

REMARKS.--Records fair except for estimated daily discharges and those greater than 180 ft<sup>3</sup>/s, which are poor. No diversion upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Greatest flood since at least 1885 occurred Oct. 5, 1911.

# DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	19	e17	e6.9	г <u>ь</u> e14	e24	e374	e501	461	102	37	3EF 16
2	50	23	e16	e7.4	e14	e25	e397	e501	487	95	37	16
3 4	55 64	25 18	e15 e14	e6.9 e5.8	e15 e14	e26 e26	e407 e402	e516 e543	537 579	87 82	41 36	16 71
5	55	25	e13	e6.3	e13	e30	e421	e578	625	76	41	58
6	50	22	11	e6.3	e11	e30	e432	e608	653	75 72	52	46
7 8	47 42	23 21	e12 e12	e6.9 e6.6	e11 e13	e24 e31	e441 e442	e631 e640	665 629	73 67	38 35	34 31
9 10	40 39	20 22	e11 e9.5	e6.9 e8.0	e14 e14	e38 e54	e432 e413	e637 e625	560 483	66 65	32 29	27 27
10	41	21	e8.0	e8.0	e13	e89	e388	e607	392	62	28	32
12	37	19	e6.4	e7.7	e12	e126	e319	e584	337	57	26	25
13 14	34 29	24 22	e5.5 e5.7	e7.7 e7.2	e11 e10	e131 e149	e372 e428	e565 e563	301 316	55 58	24 24	24 22
15	30	17	e5.4	e7.6	e12	e163	e448	e549	317	65	26	19
16	29	17	e5.2	e9.0	e13	e172	e466	e549	279	69	30	18
17 18	28 27	21 21	e5.1 e5.2	e9.9 e9.9	e13 e14	e172 e172	e487 e485	e645 e744	259 225	67 56	34 34	18 18
19 20	26 24	20 22	e5.1 e4.8	e9.0 e8.0	e15 e24	e200 e227	e472 e446	e785 839	215 202	61 57	33 34	117 298
20	24	26	e5.2	e9.9	e24 e25		e424	753	189	52	29	160
22	23	20	e5.2 e5.2	e9.9	e23 e24	e255 e287	e367	642	170	48	30	107
23 24	22 21	18 25	e5.3 e5.1	e8.0 e6.7	e22 e22	e318 e322	e348 e339	569 538	151 141	68 76	27 23	82 70
25	19	21	e4.6	e8.5	e23	e322	e344	547	136	58	22	62
26	14	22	e5.0	e11	e21	e316	e319	563	128	56	20	53
27 28	20 20	e21 e18	e4.9 e5.5	e11 e11	e23 e26	e282 e172	e397 e491	582 635	119 119	61 54	20 20	49 48
29	19	e18	e6.0	e13	e24	e167	e520	638	130	44	18	72
30 31	18 17	e17 	e6.0 e7.2	e13 e14		e250 e338	e512	495 442	112	41 39	17 17	79 
TOTAL	1,000	628	246.9	268.0	480	4,938	12,533	18,614	9,917	1,992	914	1,715
MEAN MAX	32.3 64	20.9 26	7.96 17	8.65 14	16.6 26	159 338	418 520	600 839	331 665	64.3 102	29.5 52	57.2 298
MIN	14	17	4.6	5.8	10	24	319	442	112	39	17	16
AC-FT	1,980	1,250	490	532	952	9,790	24,860	36,920	19,670	3,950	1,810	3,400
				OR WATER Y				, ,				
MEAN MAX	43.0 133	28.7 65.9	21.3 42.6	18.4 37.7	18.3 33.7	33.7 159	134 418	454 1,015	531 1,288	162 646	80.1 267	62.2 224
(WY)	(1973)	(1987)	(1958)	(1958)	(1984)	(2004)	(2004)	(1958)	(1957)	(1957)	(1999)	(1982)
MIN (WY)	14.5 (1957)	12.1 (1957)	7.81 (1990)	7.74 (1990)	7.49 (1994)	11.0 (1964)	42.9 (1975)	98.9 (1977)	36.3 (2002)	16.7 (2002)	14.2 (2002)	17.1 (1956)
SUMMAI	RY STATIST	TICS		FOR 2003 C	ALENDAR	YEAR	FOR 200	04 WATER Y	/EAR	WATER	YEARS 19	952 - 2004
ANNUAL				35,429			53,24					
ANNUAL	L MEAN ΓANNUAL N	MΕΔΝ		97	'.1		14	45			132 230	1957
LOWEST	ANNUAL M	1EAN									37.8	2002
	HIGHEST DAILY MEAN LOWEST DAILY MEAN			890 e4	May 6.6 Dec	28			y 20 c 25	1,8		Jun 10, 1952 Dec 25, 2003
ANNUAL	L SEVEN-DA	Y MINIMU!	M		i.0 Dec			5.0 De	c 20		5.0 I	Dec 20, 2003
	JM PEAK FL JM PEAK ST						99		y 19 y 19	a2,1		1ay 24, 1984 1ay 24, 1984
ANNUAL	RUNOFF (A	AC-FT)		70,280 270			105,60	00	-	95,9	990	•
50 PERCI	ENT EXCEEI ENT EXCEEI	DS		35	i			04 34		į	396 39	
90 PERCI	ENT EXCEE	DS		9	0.2			8.0			15	

From rating curve extended above 1,620 ft<sup>3</sup>/s.

a From rating curve extended above 1,620 ft<sup>3</sup>/s b Maximum gage height, 6.15 ft, Jun 10, 1952.

## 09166500 DOLORES RIVER AT DOLORES, CO

 $LOCATION.--Lat~37^{\circ}28'21'', long~108^{\circ}29'49'', in~SW^{1}/_{4}SW^{1}/_{4}~sec. 10,~T.37~N.,~R.15~W.,~Montezuma~County,~Hydrologic~Unit~14030002,~on~left~bank~0.30~mi~upstream~from~bridge~on~State~Highway~184~in~Dolores~and~0.8~mi~upstream~from~Lost~Canyon~Creek.$ 

DRAINAGE AREA.--504 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1895 to October 1903, August 1910 to November 1912, October 1921 to current year. Monthly discharge only for some periods, published in WSP 1313. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09166500

REVISED RECORDS.--WSP 859: 1937. WRD Colo. 1972: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,940 ft above NGVD of 1929, from topographic map. See WSP 1713 or 1733 for history of changes prior to Oct. 7, 1952. Oct. 7, 1952 to Nov. 16, 1983, at site 0.4 mi downstream at different datum.

REMARKS.--Records good except for Oct. 1 and estimated daily discharges, which are poor. Diversions for irrigation of about 2,000 acres upstream from station. Flow partly regulated by Ground Hog Reservoir, capacity 21,710 acre-ft.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES DAILY MEA													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	74 80 142 135 130	56 61 89 73 58	e50 e53 e51 e48 e46	e37 e34 e30 e28 e25	e44 e44 e45 e44 e41	e52 e54 e54 e60 e59	602 648 740 679 723	803 861 987 1,340 1,550	936 959 1,060 1,140 1,250	254 227 211 197 184	248 246 250 242 244	201 193 193 259 332		
6 7 8 9 10	112 105 98 89 87	59 63 61 59 64	e46 e46 e45 e43 e32	e25 e31 e34 e35 e36	e40 e41 e42 e42 e41	e52 e57 e64 e82 e113	735 862 839 809 761	1,800 2,130 2,280 2,410 2,430	1,250 1,260 1,220 1,080 953	178 161 153 147 146	283 273 255 243 237	253 229 196 98 216		
11 12 13 14 15	93 88 76 73 70	67 65 72 71 66	e31 e39 e30 e32 e39	e37 e37 e36 e35 e39	e41 e40 e38 e42 e43	e144 e168 e185 e186 e199	648 561 537 606 624	2,400 1,950 1,440 1,140 1,130	780 667 598 609 626	143 137 132 133 139	232 227 241 236 237	216 197 173 148 118		
16 17 18 19 20	68 68 65 65 65	61 66 59 57 62	e30 e29 e34 e37 e39	e39 e39 e38 e37 e39	e42 e43 e46 e53 e53	195 198 214 248 295	702 764 810 737 647	1,380 1,640 1,550 1,880 2,030	571 530 472 446 422	147 166 144 147 139	249 254 271 279 280	86 61 48 71 553		
21 22 23 24 25	63 61 61 61 59	66 71 53 e51 e69	e39 e40 e37 e34 e38	e39 e37 e35 e36 e39	e52 e51 e50 e52 e50	350 444 506 593 691	610 592 548 519 500	1,820 1,620 1,440 1,250 1,220	395 358 312 291 279	127 121 124 179 160	267 259 252 244 246	428 292 209 170 150		
26 27 28 29 30 31	56 52 58 58 57 56	e71 e56 e47 e43 e45	e38 e34 e29 e30 e34 e37	e40 e40 e42 e43 e43 e43	e50 e54 e52 e51	739 687 536 444 452 501	519 671 870 948 912	1,220 1,240 1,320 1,470 1,110 935	274 261 247 322 282	144 163 149 127 232 252	239 232 225 217 210 204	134 121 113 154 226		
TOTAL MEAN MAX MIN AC-FT	2,425 78.2 142 52 4,810	1,861 62.0 89 43 3,690	1,190 38.4 53 29 2,360	1,128 36.4 43 25 2,240	1,327 45.8 54 38 2,630	8,622 278 739 52 17,100	20,723 691 948 500 41,100	47,776 1,541 2,430 803 94,760	19,850 662 1,260 247 39,370	5,063 163 254 121 10,040	7,622 246 283 204 15,120	5,838 195 553 48 11,580		
STATIST MEAN MAX (WY) MIN (WY)	132 1,247 (1942) 26.0 (1902)	83.4 453 (1942) 20.0 (1902)	58.5 199 (1987) 19.8 (1990)	52.0 151 (1987) 19.3 (1990)	56.1 140 (1987) 20.0 (1902)	- 2004, BY W 130 458 (1997) 25.0 (1899)	740 1,955 (1942) 158 (1977)	1,730 3,625 (1922) 235 (1977)	1,337 3,470 (1957) 67.2 (2002)	401 1,490 (1957) 55.4 (1934)	237 650 (1999) 29.0 (1900)	182 1,354 (1927) 33.5 (1899)		
SUMMAI	RY STATIST	TICS		FOR 2003 CA	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 1896	6 - 2004		
SUMMARY STATISTICS  ANNUAL TOTAL  ANNUAL MEAN  HIGHEST ANNUAL MEAN  HIGHEST DAILY MEAN  LOWEST DAILY MEAN  LOWEST DAILY MEAN  ANNUAL SEVEN DAY MINIMUM				93,175 255 1,880 e12	May Jan	19	123,42 33 2,43 e2	7 60 Ma 5 Ja	y 10 n 5	7	8.0 Au	1942 1977 y 5, 1922 g 16, 1896		
HIGHEST DAILY MEAN			M	23 184,800 789 99 32	Feb	4	2,74 244,80 95 14	0 Ma 5.25 Ma 00 5	n 2 y 10 y 10		000 Oc 10.20 Oc	g 10, 1896 et 5, 1911 et 5, 1911		

e Estimated.

a Site and datum then in use, from rating curve extended above 2,800 ft<sup>3</sup>/s.

316 DOLORES RIVER BASIN

## 09166950 LOST CANYON CREEK NEAR DOLORES, CO

 $LOCATION.--Lat~37^{\circ}26'46", long~108^{\circ}28'07", in~SE^{1}\!\!/_{4}SE^{1}\!\!/_{4}~sec.23, T.37N., R.15W., Montezuma~County, Hydrologic~Unit~14030002, on~right~bank~2.5~mi~southeast~of~Dolores~and~3.0~mi~upstream~from~mouth.$ 

DRAINAGE AREA.--71.3 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1984 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=09166950

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,030 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Several small storage reservoirs and diversions for irrigation of about 4,700 acres in the San Juan River Basin and one diversion for irrigation of about 10 acres in Lost Canyon in the Dolores River Basin.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES  DAY OCT NOV DEC IAN EER MAR APR MAY IUN IUI AUG SEP													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.79 0.72 0.76 0.84 0.79	5.5 6.5 15 41 66	6.7 14 e71 e107 e117	0.56 0.48 0.35 0.29 0.24	0.21 0.45 0.49 0.53 0.51	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00		
6 7 8 9 10	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.71 0.85 1.1 1.3 1.6	62 69 70 63 67	e120 e124 e121 e115 e90	0.19 0.17 0.15 0.13 0.12	0.46 0.44 0.48 0.48 0.48	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00		
11 12 13 14 15	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	1.8 2.0 2.4 2.9 4.5	61 56 56 56 13	44 27 14 4.2 2.0	0.13 0.26 0.29 0.28 0.30	0.44 0.43 0.36 0.45 0.38	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00		
16 17 18 19 20	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.19 1.6 1.2 5.3	4.2 4.7 5.0 9.6 12	12 13 15 8.4 6.9	18 23 20 19 18	0.35 0.32 0.34 0.36 0.30	0.28 0.41 0.40 0.47 0.31	0.00 0.00 0.00 0.00 0.00	0.00 e0.00 e0.00 e0.00 e0.00		
21 22 23 24 25	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	2.4 1.6 0.95 1.5 0.73	16 20 30 37 32	5.4 4.7 4.5 4.1 4.0	14 10 8.7 3.9 1.6	0.31 0.46 0.40 0.42 0.45	0.27 0.28 0.30 0.28 0.27	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00		
26 27 28 29 30 31	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.89 0.79 1.0 0.73	30 23 9.9 6.9 5.3 5.0	3.7 4.1 8.2 9.1 7.7	1.2 1.1 1.0 0.99 0.89 0.63	0.53 0.47 0.44 0.34 0.30	0.15 0.21 0.21 0.16 0.10 0.04	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00		
TOTAL MEAN MAX MIN AC-FT	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	29.88 1.03 11 0.00 59	273.66 8.83 37 0.71 543	817.8 27.3 70 3.7 1,620	1,118.91 36.1 124 0.63 2,220	9.73 0.32 0.56 0.12	10.73 0.35 0.53 0.04 21	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00		
MEAN MAX (WY) MIN (WY)	MAX 17.7 45.2 1 (WY) (1987) (1987) (1987) MIN 0.00 0.00		1.84 14.8 (1987) 0.00 (1990)	1.35 5.00 (1987) 0.00 (1990)	2.13 6.85 (1997) 0.00 (1990)	30.0 110 (1997) 0.69 (2002)	102 265 (1987) 0.79 (2002)	95.3 293 (1993) 0.13 (2002)	8.54 91.2 (1995) 0.00 (2002)	0.24 0.96 (1999) 0.00 (2002)	0.56 7.00 (1999) 0.00 (1990)	0.95 6.05 (1999) 0.00 (1984)		
SUMMAI	RY STATIST	TCS		FOR 2003	CALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	R YEARS 1	984 - 2004		
SUMMARY STATISTICS ANNUAL MEAN HIGHEST ANNUAL MEAN HIGHEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS			М	1,32 11 2,64	0.00 Jan 0.00 Jan 40 9.1	1	e12 e,1 4,48	0.00 Oct 0.00 Oct 52 May 54.57 May 30	1 1 7		a0.00 a0.00 744 7.23 700 63	1993 2002 Apr 2, 1986 Jul 11, 1984 Aug 30, 1984 Apr 2, 1986 Apr 2, 1986		
	ENT EXCEEI ENT EXCEEI				0.00 0.00			0.00 0.00			0.84 0.00			

e Estimated.

a No flow many days each year.b From outside high-water mark.

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## 09169500 DOLORES RIVER AT BEDROCK, CO

LOCATION.--Lat 38°18'37", long 108°53'05", in NW  $^{1}_{4}\mathrm{SW}^{1}_{4}$  sec.20, T.47 N., R.18 W., Montrose County, Hydrologic Unit 14030002, on right bank at upstream side of bridge, 0.4 mi southeast of Bedrock, and 3.1 mi upstream from East Paradox Creek.

DRAINAGE AREA.--2,024 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1917 to September 1922 (monthly discharge only for some periods, published in WSP 1313), August 1971 to current year. Statistical summary computed for 1985 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09169500

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,940 ft above NGVD of 1929, from topographic map. Prior to Aug. 1, 1971, nonrecording gage at different datum.

REMARKS.--Records fair except those for July 30 to Aug. 5, Aug. 21-25, Sep. 23-29 and estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 5,000 acres upstream from station, and about 74,760 acres in the San Juan River Basin. Flow regulated since Mar. 19, 1984, by McPhee Reservoir, capacity 381,000 acre-ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 6, 1970, reached a stage of 7.15 ft, present datum, from floodmarks (discharge not determined).

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES  DAY OCT NOV DEC. LAN. FER. MAR. APR. MAY, HIN. HII. AUC. SEP.													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	13 14 16 126 123	21 21 22 26 34	e20 e20 e21 e21 e22	e25 e25 e25 e25 e24	e21 e21 23 32 e29	55 46 40 42 40	86 82 85 89 120	65 71 71 69 73	71 68 65 58 55	51 62 60 44 43	55 55 56 56 59	52 51 50 59 208		
6 7 8 9 10	50 31 25 22 20	28 26 25 25 27	e22 24 30 29 24	e24 e25 e25 e25 e26	e29 e32 35 e35 e34	40 39 38 41 42	194 220 195 172 153	76 78 88 104 104	52 50 47 45 40	42 42 42 41 40	72 66 67 57 55	163 73 62 59 59		
11 12 13 14 15	31 58 42 25 20	27 27 30 32 30	e21 e21 e21 e22 e22	e27 e27 e26 e26 e26	e32 e31 e32 e33 e32	42 41 44 44 48	190 144 119 99 85	104 104 106 93 84	38 41 50 49 49	41 46 52 53 53	56 54 53 53 54	58 52 44 43 41		
16 17 18 19 20	19 19 18 19	30 29 27 24 24	e23 e22 e22 e22 e21	e26 e23 e22 e22 e23	e31 e30 e29 e30 e30	52 53 57 59 73	77 70 66 67 67	77 71 73 77 72	48 48 49 49 47	55 57 68 68 63	52 83 76 70 80	42 42 42 80 149		
21 22 23 24 25	20 20 20 21 21	24 24 21 e20 e20	23 e22 e22 e23 e23	e24 e24 e24 e23 e22	e52 50 51 50 46	88 115 177 237 284	66 63 63 64 64	83 92 93 89 84	45 45 45 45 45	59 58 56 58 62	127 67 59 53 52	354 197 128 56 43		
26 27 28 29 30 31	21 21 21 21 21 21	e20 18 e20 e20 e21	e23 e23 e23 e23 e24 e25	e21 e20 e20 e20 e21 e20	45 47 56 63 	307 232 176 142 114 93	62 57 50 46 59	79 75 73 71 70 70	45 48 49 50 54	75 133 127 66 61 57	51 51 52 52 52 52 52	37 37 35 62 89		
TOTAL MEAN MAX MIN AC-FT	938 30.3 126 13 1,860	743 24.8 34 18 1,470	704 22.7 30 20 1,400	736 23.7 27 20 1,460	1,061 36.6 63 21 2,100	2,901 93.6 307 38 5,750	2,974 99.1 220 46 5,900	2,539 81.9 106 65 5,040	1,490 49.7 71 38 2,960	1,835 59.2 133 40 3,640	1,897 61.2 127 51 3,760	2,467 82.2 354 35 4,890		
MEAN	ICS OF MON 81.4	THLY MEA 78.0	N DATA FO 63.5	R WATER Y 63.0	72.4	- 2004, BY W 214	ATER YEAI 792	1,130	592	131	92.6	95.5		
MAX (WY) MIN (WY)	257 (1987) 25.5 (2003)	399 (1987) 24.8 (2004)	254 (1987) 20.6 (2003)	198 (1985) 22.1 (2003)	181 (1987) 36.6 (2004)	774 (1985) 40.5 (2002)	2,551 (1993) 27.6 (1990)	3,243 (1993) 18.4 (2002)	1,794 (1995) 3.69 (2002)	626 (1995) 2.25 (2002)	242 (1987) 2.22 (2002)	332 (1999) 42.5 (2000)		
SUMMAR	RY STATIST	ICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	4 WATER Y	'EAR	WATER	YEARS 1985	- 2004		
SUMMARY STATISTICS  ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 90 PERCENT EXCEEDS			Л	1,140	2.6 ) Sep 5.4 Jun 9.7 Jun )	24	35 1 1 57 40,22	55.4 Sep. 3.30 Sep. 3.30 Sep. 3.30 Sep. 3.30	p 21 ct 1 tt 15 p 21 p 21	4,0 e5,7 205,0	b1.4 Aug 1.7 Ju 230 May 9.12 May	1993 2002 7 5, 1986 8 19, 2002 1 9, 2002 7 5, 1986 7 5, 1986		

e Estimated.

Average discharge for 17 years (water years 1918-22, 1972-83), 497 ft<sup>3</sup>/s; 360,100 acre-ft/yr, prior to completion of McPhee Reservoir.
 Minimum daily discharge for period of record, no flow, Sep 13, 1974, Aug 15-18, 1978.
 Maximum discharge and stage for period of record, 9,280 ft<sup>3</sup>/s, Apr 30, 1973, gage height, 12.09 ft, from floodmarks.

## 09171100 DOLORES RIVER NEAR BEDROCK, CO

LOCATION.--Lat 38°21'25", long 108°49'58", in NE 1/4SE 1/4 sec.3, T.47 N., R.18 W., Montrose County, Hydrologic Unit 14030002, on right bank 2.5 mi downstream from West Paradox Creek and 4.2 mi northeast of Bedrock.

DRAINAGE AREA.--2,145 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1971 to current year. Statistical summary computed for 1985 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09171100

REVISED RECORDS .-- WDR CO-90-2: 1989.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,910 ft above NGVD of 1929, from topographic map. Prior to Feb. 17, 1972, at site 200 ft downstream at datum 1.98 ft lower. From Feb. 17, 1972 to Aug. 16, 2000 at site 600 ft downstream at datum 3.00 ft lower.

REMARKS.--Records good except for Oct. 1 to Mar. 4, July 3-4 and estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 80,000 acres, of which about 74,760 acres are in the San Juan River Basin. Flow regulated by McPhee Reservoir, capacity 381,000 acre-ft, since Mar. 19, 1984.

EXTREMES OUTSIDE PERIOD OF RECORD.-Flood of Sept. 6, 1970, reached a stage of 11.25 ft, site and datum then in use (discharge, 5,710 ft<sup>3</sup>/s), by slope-area measurement at site 800 ft upstream.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES  DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	16	e21	e20	e25	e20	e57	e89	e66	74	e51	52	51		
2	16	e21	e20	e25	e21	e47	e85	e72	72	e63	51	51		
3	16	e23	e21	e25	e23	e41	e88	e72	68	62	53	50		
4	81	e26	e21	e25	e30	e43	e93	71	62	45	54	57		
5	146	30	e22	e25	e30	41	e123	e74	58	43	60	165		
6	e28	24	e22	e24	e30	40	e192	77	55	43	67	232		
7	e30	22	e24	e25	e32	39	e230	81	53	42	63	76		
8	e26	e25	e28	e25	e34	37	e221	90	50	42	63	60		
9	e22	e25	e27	e25	e34	38	197	107	48	40	57	58		
10	e20	e27	e23	e26	e33	40	165	111	43	40	52	58		
11	e29	e27	e21	e27	e32	41	209	108	41	40	52	57		
12	e59	e28	e21	e27	e32	40	162	109	42	42	50	54		
13	e42	e30	e21	e26	e33	42	127	113	51	e50	50	44		
14	e25	e32	e22	e26	e32	43	104	100	50	49	50	43		
15	e21	e30	e22	e26	e32	46	88	88	51	51	50	42		
16	e19	e30	e22	e26	e30	51	e77	81	50	52	50	42		
17	e19	e29	e22	e24	e30	52	e71	75	50	54	76	42		
18	e19	e27	e22	e22	e29	56	e66	76	50	58	64	42		
19	e19	e24	e22	e22	e30	58	e67	80	51	74	64	68		
20	e19	24	e21	e23	e38	68	e67	75	48	61	68	135		
21	e20	23	e21	e24	e61	86	e67	83	47	58	119	381		
22	e20	24	e22	e24	e61	109	e64	95	46	56	71	195		
23	e21	22	e22	e24	e57	185	e63	96	46	54	58	173		
24	e21	e20	e23	e23	e52	269	e64	93	45	55	53	60		
25	e21	e20	e23	e22	e47	322	e65	88	45	58	52	45		
26 27 28 29 30 31	e21 e21 e21 18 18	e20 e19 e20 e20 e21	e23 e23 e23 e24 e24 e25	e21 e20 e20 e20 e21 e20	e46 e48 e57 e64 	390 276 200 159 124 100	e63 e58 e51 e47 e60	81 78 75 75 73 72	46 48 48 50 e54	66 108 166 65 59 54	51 51 51 52 52 52	40 37 35 50 64		
TOTAL MEAN MAX MIN AC-FT	892 28.8 146 16 1,770	734 24.5 32 19 1,460	697 22.5 28 20 1,380	738 23.8 27 20 1,460	1,098 37.9 64 20 2,180	3,140 101 390 37 6,230	3,123 104 230 47 6,190 VATER YEAI	2,635 85.0 113 66 5,230	1,542 51.4 74 41 3,060	1,801 58.1 166 40 3,570	1,807 58.3 119 50 3,580	2,507 83.6 381 35 4,970		
MEAN	86.8	84.6	67.8	69.5	81.6	224	806	1,137	599	135	94.9	103		
MAX	269	430	262	208	207	811	2,552	3,219	1,766	677	274	379		
(WY)	(1987)	(1987)	(1987)	(1985)	(1987)	(1985)	(1985)	(1993)	(1995)	(1995)	(1987)	(1999)		
MIN	23.1	24.5	20.8	22.2	36.2	35.1	27.3	15.5	4.51	1.91	1.73	40.4		
(WY)	(2003)	(2004)	(2003)	(2003)	(2003)	(2002)	(1990)	(2002)	(2002)	(2002)	(2002)	(2002)		
SUMMAI	RY STATIST	ICS		FOR 2003 C	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 1985	5 - 2004		
SUMMARY STATISTICS  ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 90 PERCENT EXCEEDS			М		.2 Sep 5.3 Jun 2.2 Jun	25	39 1 1 62 41,09	56.6  00 Ma 16 Oc 19 Oc 29 Se 14.58 Se	r 26 t 1 t 16 p 21 p 21	4,; c5,; 210,	b1.1 Au 1.3 Ju 260 Ma 10.82 Ma	1993 2002 y 6, 1986 g 19, 2002 il 11, 2002 y 6, 1986 y 6, 1986		

Average discharge for 12 years (water years 1972-83), 502 ft<sup>3</sup>/s; 363,700 acre-ft/yr, prior to completion of McPhee Dam.
 Minimum daily discharge for period of record, 0.12 ft<sup>3</sup>/s, Jul 17-18, 1977.
 Maximum discharge and stage for period of record, 9,500 ft<sup>3</sup>/s, Apr 30, 1973, gage height, 12.88 ft site and datum then in use, from floodmarks.

## 09172500 SAN MIGUEL RIVER NEAR PLACERVILLE, CO

 $LOCATION.--Lat~38°02'33", long~108°07'54", in~NW^{1}/_{4}NE^{1}/_{4}~sec. 25, T.44~N., R.12~W., San~Miguel~County,~Hydrologic~Unit~14030003, on~right~bank~1.5~mi~downstream~from~Specie~Creek~in~vicinity~of~mile~marker~88.68~on~State~Highway~145~and~4.5~mi~northwest~of~Placerville.$ 

DRAINAGE AREA.--310 mi<sup>2</sup>.

PERIOD OF RECORD.--January to December 1909, September 1910 to November 1912, April 1930 to September 1934, April 1942 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as "at Placerville," 1910-12. Statistical summary computed for 1911 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09172500

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,030 ft above NGVD of 1929, from topographic map. See WSP 1713 or 1733 for history of changes prior to Oct. 21, 1958. Oct. 22, 1958 to Mar. 4, 1986, gage located 0.8 mi upstream from present site, at different datum. Mar. 5, 1986, gage moved to present site, at present datum.

REMARKS.—Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 1,700 acres upstream from station. One diversion from Fall Creek for irrigation of about 2,000 acres in Beaver and Saltado Creek Basins. One small ditch diverts water from Leopard Creek to Uncompahgre River Basin. Slight regulation by Lake Hope and Trout lake operated by the City of Telluride, Public Service Company of Colorado, Pacific Light and Power Company, and Tri State Power Company, combined capacity, 5,040 acre-feet.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	127 132 133 127 118	81 84 102 90 86	e73 70 e65 e63 e64	e51 e46 e42 e40 e39	e55 e64 e69 e70 e68	79 e72 e91 74 71	189 197 216 205 242	256 251 270 330 382	532 579 648 714 771	292 311 297 280 252	162 163 157 151 152	74 72 69 121 130		
6 7 8 9 10	119 123 119 118 117	86 88 86 80 85	66 64 68 e54 e47	e41 e42 e40 e40 e40	e64 e61 e57 e54 e52	e73 e83 e72 e54 e51	276 316 298 369 316	433 549 631 665 700	828 874 870 837 818	262 265 247 249 233	161 141 132 126 117	111 109 104 100 109		
11 12 13 14 15	116 110 108 108 107	75 71 74 82 78	e52 e57 e47 e52 e58	e41 e40 e40 e41 e42	e53 e57 e60 e62 e64	e54 e59 e71 e84 e110	258 232 228 231 227	727 628 520 432 401	651 560 527 618 653	228 208 213 222 225	110 104 99 93 89	127 112 109 103 98		
16 17 18 19 20	109 104 96 91 91	74 77 71 72 77	e51 e50 e50 e53 e55	e42 e40 e40 e42 e43	e66 e65 e54 e48 e45	133 135 143 144 157	231 247 259 241 228	446 534 558 685 770	585 570 477 497 514	226 238 224 242 231	94 102 111 116 118	94 89 87 133 320		
21 22 23 24 25	101 101 96 100 102	76 74 52 e55 e68	e56 e55 e50 e50 e52	e41 e40 e40 e41 e44	e37 e37 e64 e77 e79	176 185 186 221 282	226 223 224 222 221	752 665 620 593 613	493 410 374 372 365	201 185 202 234 203	110 111 106 96 83	277 209 175 161 151		
26 27 28 29 30 31	81 85 88 87 85 83	e72 e61 e60 e62 e66	e46 e40 e39 e39 e44 e50	e48 e52 e57 e59 e58 e56	e79 e83 e86 e82	280 239 188 179 181 184	219 227 235 245 255	628 663 726 787 611 516	347 334 334 328 318	192 194 202 163 176 148	77 75 81 73 69 72	141 129 131 170 174		
TOTAL MEAN MAX MIN AC-FT	3,282 106 133 81 6,510	2,265 75.5 102 52 4,490	1,680 54.2 73 39 3,330	1,368 44.1 59 39 2,710	1,812 62.5 86 37 3,590	4,111 133 282 51 8,150	7,303 243 369 189 14,490	17,342 559 787 251 34,400	16,798 560 874 318 33,320	7,045 227 311 148 13,970	3,451 111 163 69 6,850	3,989 133 320 69 7,910		
MEAN MAX (WY) MIN (WY)	112 399 (1912) 50.9 (1957)	83.7 138 (1985) 51.4 (1990)	N DATA FC 68.5 104 (1987) 40.8 (1977)	62.9 101 (1998) 38.3 (1977)	63.0 94.2 (1987) 37.1 (1990)	77.7 148 (1997) 46.4 (1980)	233 593 (1942) 79.6 (1951)	568 1,515 (1958) 136 (1977)	778 1,528 (1983) 150 (2002)	436 1,197 (1983) 63.8 (2002)	213 527 (1999) 56.7 (2002)	143 391 (1999) 63.8 (1956)		
SUMMAR	RY STATIST	ICS		FOR 2003 CA	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 19	911 - 2004		
SUMMARY STATISTICS ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN HIGHEST DAILY MEAN			66,205 181 1,360	May	30	70,44 19	2	ı 7	2	236 414 88.8 740	1983 1977 Jun 21, 1983			
LOWEST ANNUAL MAXIMU MAXIMU	DAILY MEA SEVEN-DA IM PEAK FL IM PEAK ST	AN .Y MINIMUN .OW 'AGE	Л	e39 42 131,300	Dec Jan	28	e3 4 1,02 139,70	7 Feb 0 Jan 0 Jun 4.21 Jun	21	a3,8 170,9	26 31 I 330 . b6.20 .	Jan 5, 1960 Dec 25, 1976 Jun 24, 1983 Jun 24, 1983		
50 PERCE	MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			405 96 47			52 11 4	0			531 104 55			

e Estimated.

Maximum discharge for period of record, 10,000 ft<sup>3</sup>/s, Sep 5, 1909, gage height not determined; result of failure of Trout and Middle Reservoir Dams. Maximum gage height for statistical period of record, 8.58 ft, May 24, 1984, site and datum then in use.

320 DOLORES RIVER BASIN

## 09174600 SAN MIGUEL RIVER AT BROOKS BRIDGE NEAR NUCLA, CO

LOCATION.--Lat 38°14'39", long 108°30'05", in  $NE^{1}_{4}NE^{1}_{4}$  sec.15, T.46 N., R.15 W., Montrose County, Hydrologic Unit 14030003, on right bank at downstream side of Brooks Bridge, 0.5 mi upstream from Tri-State Power Plant, 3 mi upstream from Naturita Creek, and 4.4 mi northeast of Naturita.

DRAINAGE AREA.--736 mi<sup>2</sup>.

PERIOD OF RECORD.--March 1995 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=09174600

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,570 ft above NGVD of 1929, from topographic map.

REMARKS.—Records good except for estimated daily discharges, which are poor. Diversions for irrigation of several thousand acres upstream from station and diversions upstream for an additional several thousand acres downstream from the gage. One small ditch diverts water from Leopard Creek to Uncompahgre River Basin. Slight regulation by Lake Hope and Trout Lake (combined capacity, 5,040 acre-ft) operated by the City of Telluride, Public Service of Colorado, Pacific Light and Power Company, and Tri State Power Company.

•	•		1 ,									
					R YEAR OC	, CUBIC FEE TOBER 2003 LY MEAN V	TO SEPTEM					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	e55 54 72 56 46	87 84 103 107 94	93 89 89 88 88	e55 e50 e45 e42 e40	e57 e65 e79 e94 e95	79 72 102 92 65	475 456 543 563 750	349 347 335 390 462	423 454 510 580 679	154 168 162 145 116	26 40 38 26 27	3.9 3.4 3.6 8.7 61
6 7 8 9 10	38 51 46 41 43	92 94 94 88 93	85 77 79 90 68	e42 e46 e44 e41 e42	86 67 63 59 51	70 88 82 59 55	873 842 771 855 902	536 640 721 758 787	739 796 804 727 697	119 130 114 111 98	42 29 17 11 5.3	34 25 22 19 16
11 12 13 14 15	44 37 34 100 113	91 80 81 85 88	58 54 56 67 85	e43 e42 e41 e42 e46	54 58 61 62 64	61 68 78 83 92	623 513 452 448 426	811 747 603 488 423	552 453 392 464 517	100 81 71 70 77	4.2 5.6 5.6 5.0 5.0	35 33 26 22 18
16 17 18 19 20	112 114 108 96 94	82 83 78 39 27	69 48 e53 e55 e56	e46 e44 e41 e43 e44	67 69 60 49 67	130 149 164 188 265	422 434 466 415 326	433 510 523 627 734	435 423 341 347 366	85 122 101 127 127	5.3 6.5 6.4 7.3 9.0	15 13 6.3 8.3 252
21 22 23 24 25	101 106 104 100 117	28 33 36 65 68	e57 e60 e52 e52 e58	e41 e37 e37 e42 e44	35 36 83 77 79	386 527 580 684 900	294 294 288 298 249	719 644 580 531 528	361 291 247 240 232	97 68 54 128 92	9.9 4.6 5.4 5.0 3.6	359 248 180 149 126
26 27 28 29 30 31	94 83 92 92 91 88	96 92 64 75 82	e57 e48 e40 e40 e51 e55	e37 e31 e40 e42 e45 e49	78 84 89 85 	907 753 501 392 368 391	223 235 276 301 342	528 555 626 726 561 440	221 210 203 193 187	73 69 95 64 47 47	3.9 4.4 4.4 4.4 3.9 3.7	98 87 135 175
TOTAL MEAN MAX MIN AC-FT	2,422 78.1 117 34 4,800	2,309 77.0 107 27 4,580	2,013 64.9 93 40 3,990	1,324 42.7 55 31 2,630	1,973 68.0 95 35 3,910	8,431 272 907 55 16,720	14,355 478 902 223 28,470	17,662 570 811 335 35,030	13,084 436 804 187 25,950	3,112 100 168 47 6,170	374.4 12.1 42 3.6 743	2,294.2 76.5 359 3.4 4,550
						- 2004, BY W		` ′	(70	204	152	102
MEAN MAX (WY) MIN (WY)	119 208 (1998) 60.0 (2002)	92.1 129 (1998) 52.8 (2002)	80.1 106 (1998) 50.1 (2002)	75.5 106 (1998) 38.1 (2002)	79.4 108 (1997) 58.5 (2001)	183 486 (1997) 74.8 (2002)	552 1,127 (1997) 160 (2002)	759 1,317 (1995) 76.4 (2002)	670 1,631 (1995) 47.5 (2002)	304 1,059 (1995) 5.86 (2002)	153 539 (1999) 6.62 (2002)	103 267 (1999) 11.4 (2001)
SUMMAF	RY STATIST	TICS		FOR 2003 C	ALENDAR	YEAR	FOR 200	4 WATER	YEAR	WATER	YEARS 1	995 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN				61,717 169	)		69,35 18	39		2	240 199 59.1	1997 2002
LOWEST ANNUAL MAXIMU	HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE		M		) May 5.7 Jul 3.4 Jul	22	1,34	3.4 Se 3.9 Au 40 Ma	ar 26 p 2 g 28 ar 26 ar 26	a2,3	2.3 3.6 290	Jun 17, 1995 Sep 13, 2001 Aug 14, 1996 Apr 24, 1998 Apr 24, 1998
ANNUAL 10 PERCE 50 PERCE	ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW			122,400 444 83 32	<del> </del> 			00				• , , ,

e Estimated.

a Also occurred Jun 18, 1995. b Maximum gage height, 6.32 ft, Jun 17, 1995.

## 09177000 SAN MIGUEL RIVER AT URAVAN, CO

 $LOCATION.--Lat\ 38^\circ 21'26'', long\ 108^\circ 42'44'', in\ SW^1/_4NE^1/_4sec. 2, T.47\ N., R.17\ W., Montrose\ County, Hydrologic\ Unit\ 14030003, on\ right\ bank\ 20\ ft\ downstream\ from\ bridge\ on\ State\ Highway\ 141,\ 400\ ft\ downstream\ from\ Tabeguache\ Creek,\ and\ 1.5\ mi\ southeast\ of\ Uravan.$ 

DRAINAGE AREA.--1,499 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1954 to September 1962, October 1973 to September 1994, August 1996 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09177000

REVISED RECORDS .-- WRD Colo. 1974: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,000 ft above NGVD of 1929, from topographic map. Prior to Sept. 3, 1959, at site 0.5 mi downstream at different datum.

REMARKS.—Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, diversions for irrigation of about 28,000 acres upstream from station, and return flow from irrigated areas.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Sept. 6, 1970, reached a stage of 12.6 ft, from floodmarks, discharge, 8,910 ft<sup>3</sup>/s, by slope-area measurement at site 5.5 mi downstream.

DISCHARGE, CUBIC FEET PER SECOND

					YEAR OC	TOBER 2003 LY MEAN V	TO SEPTEM					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	75 85 116 104 97	98 99 107 122 111	95 100 83 88 86	e63 e58 e53 e50 e48	e69 e77 85 108 109	111 89 131 129 83	549 548 626 653 782	505 510 484 547 652	494 509 554 614 699	196 190 192 181 156	73 81 86 78 71	12 13 13 26 164
6 7 8 9 10	86 85 89 80 79	105 105 106 103 107	96 90 93 89 76	43 e50 e49 e46 e48	103 91 91 e83 80	74 95 98 81 79	1,050 921 900 941 1,120	738 826 912 943 966	764 819 816 751 709	137 149 142 131 130	83 87 62 51 42	88 64 52 47 47
11 12 13 14 15	124 91 82 133 129	110 97 97 97 97 102	66 61 65 54 95	e49 e48 e48 e48 e51	80 e76 e74 69 106	81 92 101 109 118	756 630 557 554 539	980 908 766 634 561	603 503 439 475 536	128 118 100 89 109	37 26 25 25 22	49 75 62 52 46
16 17 18 19 20	125 125 121 111 106	97 94 97 71 49	65 56 e61 e63 e64	e52 e50 e48 e49 e49	127 132 109 89 112	167 175 186 216 306	542 555 590 538 450	551 616 637 712 816	480 456 387 373 389	114 139 141 161 182	19 21 27 32 90	43 39 39 114 327
21 22 23 24 25	109 117 116 113 123	52 59 57 73 78	e65 e68 e61 e60 e65	e47 e44 e44 e47 e50	135 131 126 114 117	443 599 658 719 981	410 398 401 403 349	808 745 677 625 608	387 326 267 250 241	153 114 103 200 156	53 47 39 34 28	493 406 243 195 170
26 27 28 29 30 31	116 99 105 105 102 99	108 95 74 83 92	e64 e56 e48 e49 e58 e62	e44 e41 e46 e48 e54 e58	110 126 140 120	1,030 842 608 480 443 463	328 340 392 439 503	605 621 678 771 662 529	240 238 228 223 223	128 110 162 130 88 95	23 19 19 17 16 15	149 134 121 180 301
TOTAL MEAN MAX MIN AC-FT	3,247 105 133 75 6,440	2,745 91.5 122 49 5,440	2,202 71.0 100 48 4,370	1,523 49.1 63 41 3,020	2,989 103 140 69 5,930	9,787 316 1,030 74 19,410	17,764 592 1,120 328 35,230	21,593 697 980 484 42,830	13,993 466 819 223 27,760	4,324 139 200 88 8,580	1,348 43.5 90 15 2,670	3,764 125 493 12 7,470
			N DATA FO 93.8	OR WATER YE				, ,	949	405	106	120
MEAN MAX (WY) MIN (WY)	137 333 (1987) 30.6 (1957)	116 385 (1987) 60.9 (1956)	93.8 188 (1987) 49.6 (1977)	87.1 139 (1985) 49.1 (2004)	105 226 (1958) 54.1 (1990)	195 612 (1997) 66.8 (1977)	816 2,154 (1985) 110 (1977)	1,134 3,420 (1984) 86.6 (1977)	2,361 (1957) 87.2 (2002)	405 1,306 (1957) 9.15 (2002)	186 646 (1999) 11.2 (2002)	130 416 (1982) 16.8 (1956)
SUMMAR	Y STATIST	TICS		FOR 2003 CA	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 1954	4 - 2004
SUMMARY STATISTICS ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN			74,293 204			85,27 23	33		7	364 758 78.4	1984 2002	
LOWEST ANNUAL MAXIMU	M PEAK FL	AN Y MINIMUM .OW		1,210 19 24	May Aug Aug	12	1 1,46	12 Sep 15 Aug	g 28 r 26	5,4 a8,0	3.2 Au 4.2 Ju 050 Ma	ny 16, 1984 ng 29, 2002 nd 11, 2002 ny 10, 1983 ny 10, 1983
ANNUAL 10 PERCE 50 PERCE	ANNUAL SEVEN-DAY MINIMUN MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			147,400 550 97 53			169,20 64 10	00 12		1		. ,

e Estimated.

a  $\,$  From rating curve extended above 4,100 ft $^3$ /s.

## 09237450 YAMPA RIVER ABOVE STAGECOACH RESERVOIR, CO

 $LOCATION.--Lat\ 40^{\circ}16'09",\ long\ 106^{\circ}52'49",\ in\ SW^{1}_{/4}SW^{1}_{/4}\ sec. 36,\ T.4\ N.,\ R.85\ W.,\ Routt\ County,\ Hydrologic\ Unit\ 14050001,\ on\ left\ bank\ 1.4\ mi\ downstream\ from\ Jack\ Creek\ and\ 4.0\ mi\ east\ of\ Oak\ Creek.$ 

DRAINAGE AREA.--208 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1988 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=09237450

REVISED RECORDS .-- WDR CO-00-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and concrete control. Elevation of gage is 7,240 ft above NGVD of 1929, from topographic map.

REMARKS.—Records good except for estimated daily discharges, which are poor. Diversions for irrigation upstream from station. Natural flow of stream affected by 2 diversions for irrigation to Egeria Creek into Colorado River Basin and by storage in Stillwater, Yampa and YamColo Reservoirs (total capacity 15,820 acre-ft).

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES  DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	33 29 39 34 31	34 38 48 44 42	e35 e38 e42 e42 e43	e41 e44 e43 e42 e42	e40 e40 e40 e40 e40	e50 e42 52 33 51	54 58 61 60 64	50 46 42 41 43	48 40 40 38 45	90 72 63 56 62	57 58 63 57 56	27 28 27 31 51		
6 7 8 9 10	29 29 35 35 34	41 41 42 42 43	e43 e42 e43 e44 e44	e46 e46 e45 e45 e45	e40 e40 e40 e41 e41	44 34 37 43 47	68 72 79 85 73	29 25 16 16 17	45 41 37 28 32	63 53 50 45 47	57 50 46 44 48	40 33 32 29 27		
11 12 13 14 15	34 33 33 31 32	43 41 43 45 42	e46 e45 e42 e44 e44	e44 e43 e42 e43 e44	e41 e41 e41 e41	45 49 54 58 61	64 65 61 58 56	17 22 30 30 32	37 40 41 39 42	49 49 51 54 67	48 46 41 38 36	29 27 29 25 19		
16 17 18 19 20	32 31 30 29 28	40 42 38 e45 e44	e44 e45 e45 e44 e42	e44 e42 e42 e42 e41	e41 e42 e42 e42 e43	54 66 86 111 154	56 60 61 62 57	31 28 26 22 20	45 60 90 75 69	74 107 88 86 81	35 36 40 48 48	22 22 21 19 28		
21 22 23 24 25	29 29 29 28 27	41 36 27 e35 e34	e42 e43 e42 e42 e41	e40 e40 e40 e42 e43	e43 e43 e43 e43	151 141 121 95 92	58 59 56 52 50	23 28 30 29 39	76 77 66 56 51	83 76 79 105 85	45 50 46 38 34	45 51 49 43 39		
26 27 28 29 30 31	28 32 32 32 31 32	e36 e36 e35 e37 e33	e42 e42 e42 e42 e42 e42	e41 e41 e40 e40 e40 e40	e44 e44 e45 e45	82 73 65 57 56 53	47 42 44 46 51	40 36 39 38 49 46	53 60 63 67 103	73 71 69 64 63 62	31 39 33 31 29 27	36 34 35 35 40		
TOTAL MEAN MAX MIN AC-FT	970 31.3 39 27 1,920	1,188 39.6 48 27 2,360	1,319 42.5 46 35 2,620	1,313 42.4 46 40 2,600	1,210 41.7 45 40 2,400	2,157 69.6 154 33 4,280	1,779 59.3 85 42 3,530	980 31.6 50 16 1,940	1,604 53.5 103 28 3,180	2,137 68.9 107 45 4,240	1,355 43.7 63 27 2,690	973 32.4 51 19 1,930		
MEAN MAX (WY) MIN (WY)	49.1 116 (1998) 27.2 (2003)	50.7 85.1 (1998) 32.0 (1995)	42.7 71.1 (1996) 29.2 (1990)	41.6 74.2 (1996) 21.4 (1990)	42.0 75.4 (1996) 29.4 (1991)	62.4 113 (1998) 38.7 (1992)	109 259 (1996) 48.7 (1995)	115 278 (1996) 13.9 (2002)	111 348 (1997) 12.3 (2002)	97.3 167 (1995) 17.3 (2002)	71.2 153 (1997) 25.3 (2002)	50.2 135 (1997) 17.4 (2002)		
SUMMAF	RY STATIST	ICS		FOR 2003 CA	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 1989	9 - 2004		
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE 50 PERCE	. MEAN T ANNUAL M T ANNUAL M T DAILY ME T DAILY ME	IEAN AN AN Y MINIMUN OW 'AGE AC-FT) DS DS	Л	22,106 60. 225 e23 25 43,850 112 45 30	6 Jun Mar Feb	3	15 1 2 20 33,69 6	6.4 Mai 6 May 20 May 01 Mai 4.29 Mai	7 8 7 6 r 20	50,9	a5.3 Ma 8.9 Ma 765 Ma b5.96 Ma	1997 2002 n 9, 1997 y 10, 2002 y 8, 2002 ur 26, 1998 ur 26, 1998		

<sup>Also occurred May 11, 2002.
Maximum gage height, 7.31 ft, Dec 4, 1997, backwater from ice.</sup> 

## 09237500 YAMPA RIVER BELOW STAGECOACH RESERVOIR, CO

LOCATION (REVISED).--Lat 40°17'07", long 106°49'51", in SW \(^1\_4\)SE \(^1\_2\) sec.29, T.4 N., R.84 W., Routt County, Hydrologic Unit 14050001, on left bank, 50 ft downstream from Stagecoach Reservoir, 1.1 mi upstream from Morrison Creek, and 6.5 mi east of Oak Creek.

DRAINAGE AREA.--228 mi<sup>2</sup>.

PERIOD OF RECORD.--September 1939 to September 1944, monthly discharge only for some periods, published in WSP 1313; October 1956 to September 1972; October 1984 to current year. Prior to October 1990, published as Yampa River near Oak Creek. Statistical summary computed for 1989 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09237500

REVISED RECORDS.--WDR CO-00-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,050 ft above NGVD of 1929, from topographic map. Sept. 1939 to Nov. 15, 1939, nonrecording gage, Nov. 16, 1939 to Sept. 1944 and Oct. 1956 to Sept. 1972, water-stage recorder at site 0.2 mi upstream, at different datum. Oct. 1984 to July 15, 2003, water-stage recorder at site 0.3 mi downstream, at different datum

REMARKS.--Records good except when the jet flow valve is on at the dam and estimated mean daily discharges, which are fair. Flow regulated since Dec. 20, 1988, by Stagecoach Reservoir (capacity 33,275 acre-ft), 50 ft upstream. Diversions for irrigation of about upstream from station. Natural flow of stream affected by 2 diversions for irrigationto Egeria Creek into Colorado River Basin and by storage in Stillwater, Yampa and YamColo Reservoirs (total capacity 15,820 acre-ft).

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES  DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	73 61 54 51 48	40 39 38 35 35	37 35 37 42 42	52 54 50 50 52	56 55 53 52 55	58 60 54 54 55	42 42 42 42 42	40 40 40 40 34	41 37 32 30 30	43 43 43 43 43	38 32 32 32 32 32	84 84 84 84		
6 7 8 9 10	53 55 53 50 45	36 35 35 35 35	46 42 50 58 58	55 55 55 55 50	e53 e55 e56 e56 e56	53 49 55 55 55	41 40 41 41 41	29 27 25 25 21	35 32 35 29 27	43 43 44 44 43	32 32 32 34 41	84 64 32 33 33		
11 12 13 14 15	39 39 45 45 45	35 35 35 35 35 35	58 58 58 58 58	50 55 55 55 54	e56 e56 e56 59 59	55 55 50 50 55	41 41 41 41 40	19 19 22 26 26	27 27 27 27 27 30	43 43 43 43 43	43 42 42 42 42	36 36 29 24 23		
16 17 18 19 20	45 45 40 40 45	35 35 35 35 35 35	58 58 58 53 48	53 53 53 53 53	59 59 59 59 59	55 60 65 64 59	40 40 40 40 40	26 26 25 26 25	34 40 43 43 43	43 42 43 42 42	43 49 43 42 42	24 35 34 28 28		
21 22 23 24 25	45 45 43 41 39	35 35 35 34 34	48 46 43 43 43	53 53 53 53 53	59 59 59 59 59	59 59 52 54 54	40 40 41 46 38	26 26 26 26 27	43 43 43 43 47	42 42 42 48 44	42 42 43 42 44	29 28 29 29 29		
26 27 28 29 30 31	40 40 40 40 40 32	34 34 34 34 34	43 43 43 43 43 46	53 53 53 53 53 53 52	59 58 58 58 	48 41 41 41 41 41	43 39 40 40 40	32 27 34 35 33 34	44 48 44 44 44	48 44 44 43 42 44	42 42 42 42 65 84	29 29 29 29 29		
TOTAL MEAN MAX MIN AC-FT	1,416 45.7 73 32 2,810	1,056 35.2 40 34 2,090	1,496 48.3 58 35 2,970	1,644 53.0 55 50 3,260	1,656 57.1 59 52 3,280	1,647 53.1 65 41 3,270	1,225 40.8 46 38 2,430	887 28.6 40 19 1,760	1,112 37.1 48 27 2,210	1,342 43.3 48 42 2,660	1,297 41.8 84 32 2,570	1,252 41.7 84 23 2,480		
MEAN MAX (WY) MIN (WY)	60.9 110 (1998) 25.8 (1991)	58.7 94.7 (1996) 35.2 (2004)	56.9 93.3 (1996) 27.0 (2001)	59.5 89.8 (1998) 28.3 (2003)	59.4 84.8 (1997) 28.3 (2003)	60.0 90.3 (2000) 18.0 (1989)	67.8 67.8 166 (1996) 32.3 (1989)	102 303 (1996) 12.4 (1989)	107 377 (1997) 12.8 (1989)	84.7 172 (1995) 22.3 (1989)	77.5 156 (1997) 34.4 (1989)	69.3 135 (1997) 31.8 (1990)		
SUMMAF ANNUAL ANNUAL		TICS		FOR 2003 CA 19,330 53.		YEAR	16,03	14 WATER Y 130 13.8	EAR		YEARS 198 a72.1	9 - 2004		
HIGHEST LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE 50 PERCE	TANNUAL M ANNUAL M DAILY ME DAILY ME	MEAN AN AN Y MINIMUN OW 'AGE AC-FT) DS DS	1	164 21 27 38,340 91 43 28	Jun Feb Feb	2 7 5	8 1 2 10 31,80 5	34 Aug 9 May 22 May 01 Sep 1.68 Sep	7 11 7 8 9 17	b6 d6 52,,	134 32.1 511 Ju c9.4 Ju 10 Ma 541 Ju f3.82 Ju	1997 1989 n 9, 1997 n 1, 1989 ty 29, 1989 n 11, 1997 n 11, 1997		

Average discharge for 25 years (water years 1940-44, 1957-72, 1985-88), 89.4 ft<sup>3</sup>/s; 64,770 acre-ft/yr, prior to completion of Stagecoach Reservoir. Maximum daily discharge for period of record, 1,020 ft<sup>3</sup>/s, Apr 16, 1962. Minimum daily discharge for period of record, 8.9 ft<sup>3</sup>/s, May 22, 1963. Maximum discharge and stage for period of record, 1,400 ft<sup>3</sup>/s, Apr 16, 1962, gage height, 7.56 ft, from rating curve extended above 570 ft<sup>3</sup>/s, site and datum then in use. Maximum gage height, 8.08 ft, Mar 8, 1987, backwater from ice, site and datum then in use.

## 09238900 FISH CREEK AT UPPER STATION, NEAR STEAMBOAT SPRINGS, CO

 $LOCATION.--Lat~40^{\circ}28^{\circ}30^{\circ}, long~106^{\circ}47^{\circ}11^{\circ}, in~SE^{1}_{2}ASE^{1}_{2}A~sec.15, T.6~N., R.84~W., Routt~County, Hydrologic~Unit~14050001, on~right~bank~2.6~mi~upstream~from~mouth, and~2.5~mi~east~of~Steamboat~Springs.$ 

DRAINAGE AREA.--25.8 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1966 to September 1972, May 1982 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09238900

REVISED RECORDS .-- WDR C0-00-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry, and concrete control. Elevation of gage is 7,150 ft above NGVD of 1929, from topographic map.

REMARKS.—Records good except for estimated daily discharges, which are fair. Diversions upstream from station by Mount Werner Recreation District and City of Steamboat Springs for domestic use began in 1972 (see table below for figures of diversion). Natural flow of stream affected by storage in Fish Creek and Long lake Reservoir, combined capacity 2,237 acre-ft.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	3.1 2.8 9.5 5.1 4.3	4.3 5.3 5.6 2.2 3.8	3.6 3.2 3.6 3.8 3.8	2.4 2.5 2.7 2.8 2.9	2.5 3.0 2.6 2.9 2.8	3.0 3.5 3.1 3.2 3.2	42 44 48 49 60	68 70 95 154 231	152 232 372 439 507	98 71 58 51	3.4 4.3 4.8 3.9 3.8	4.2 3.2 3.0 11 19		
6 7 8 9 10	4.4 3.9 4.0 3.9 3.9	3.9 3.5 3.3 3.7 4.0	3.8 4.2 3.8 3.6 4.4	2.9 3.3 3.9 3.2 3.2	2.8 3.1 2.6 2.6 2.7	3.2 3.2 3.3 4.1 5.6	68 74 79 73 65	275 300 310 320 335	512 555 537 483 383	50 41 34 27 21	6.8 4.5 4.3 3.7 3.4	21 17 9.3 6.8 6.2		
11 12 13 14 15	4.8 4.3 4.4 4.3 4.0	4.1 4.2 3.7 4.8 4.6	4.4 4.4 4.2 4.4 4.1	3.0 3.2 3.5 3.8 3.7	3.0 2.7 2.7 2.4 2.2	5.3 6.0 7.4 8.1 8.2	57 51 49 51 50	304 217 168 136 130	275 238 245 268 255	18 15 13 14 20	3.6 3.6 3.2 2.9 2.7	7.1 5.6 5.3 5.8 6.5		
16 17 18 19 20	4.0 4.0 3.8 3.7 3.6	4.3 3.9 4.5 5.9 5.2	3.7 3.8 3.8 3.8 3.6	3.1 2.8 2.9 3.0 3.2	2.1 2.0 2.1 4.6 5.2	8.0 8.4 11 16 24	55 66 74 67 60	145 159 233 328 381	231 233 e279 e250 e225	57 29 20 14 9.9	2.8 2.9 6.5 11 9.3	5.7 5.1 4.9 9.8 35		
21 22 23 24 25	3.9 4.1 3.4 3.4 3.4	4.1 2.4 3.2 5.5 5.7	3.7 3.5 3.4 3.3 3.1	2.9 3.2 4.9 3.1 3.1	4.2 2.4 2.2 2.4 2.9	33 41 50 55 58	56 50 47 47 45	365 297 245 241 188	e242 178 139 127 110	9.2 7.4 7.5 10 7.9	9.8 6.2 5.1 4.5 4.6	34 26 23 28 41		
26 27 28 29 30 31	3.6 3.7 3.8 3.9 3.7 4.2	4.4 3.7 4.5 5.0 4.2	3.5 3.1 3.3 3.0 2.6 2.6	3.5 3.2 3.5 3.2 2.8 2.4	2.9 2.6 2.7 2.7 	60 55 44 36 33 37	46 58 73 78 77	178 246 362 348 208 158	79 72 75 95 114	7.2 7.3 5.7 4.9 4.2 4.8	5.3 13 9.0 6.0 4.8 4.1	45 50 47 44 67		
TOTAL MEAN MAX MIN AC-FT	126.9 4.09 9.5 2.8 252	127.5 4.25 5.9 2.2 253	113.1 3.65 4.4 2.6 224	97.8 3.15 4.9 2.4 194	81.6 2.81 5.2 2.0 162	639.8 20.6 60 3.0 1,270	1,759 58.6 79 42 3,490	7,195 232 381 68 14,270	7,902 263 555 72 15,670	788.0 25.4 98 4.2 1,560	163.8 5.28 13 2.7 325	596.5 19.9 67 3.0 1,180		
a	168	138	174	184	156	193	146	250	313	338	329	246		
MEAN MAX (WY) MIN (WY)	10.7 51.9 (1998) 2.52 (1993)	9.75 31.6 (1998) 3.07 (1989)	7.42 23.3 (1998) 2.43 (2000)	5.86 19.2 (1998) 2.29 (2001)	5.37 15.8 (1998) 1.88 (2001)	9.31 20.6 (2004) 3.59 (2002)	36.2 59.0 (1987) 8.21 (1983)	214 358 (1969) 85.5 (1983)	366 580 (1997) 102 (2002)	80.2 331 (1995) 3.27 (2002)	9.15 21.6 (1997) 0.86 (1994)	10.4 74.0 (1997) 0.73 (1994)		
SUMMAI	RY STATIST	TICS		FOR 2003 C	ALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 19	967 - 2004		
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			М	25,142.7 68.9  956 May 29 1.7 Mar 9 2.0 Feb 17 2.1 Mar 4 2.3 Feb 12 774 Jun 7 2.65 Jun 7 38,860 267 38,860 227 5.0 3.3 2.9				1,2	0.01 A 0.11 A 240 N	1984 2002 May 29, 2003 Mug 7, 1972 Mug 7, 1972 May 29, 2003 May 29, 2003				

e Estimated

a Diversions, in acre-feet, by Mount Werner Water and Sanitation District, and City of Steamboat Springs.

## 09239500 YAMPA RIVER AT STEAMBOAT SPRINGS, CO

 $LOCATION.--Lat~40^{\circ}29'01", long~106^{\circ}49'54", in~NW^{1}_{4}NE^{1}_{/4}~sec.17,~T.6~N.,~R.84~W.,~Routt~County,~Hydrologic~Unit~14050001,~on~left~bank~30~ft~upstream~from~Fifth~Street~bridge~in~Steamboat~Springs,~and~0.6~mi~upstream~from~Soda~Creek.$ 

DRAINAGE AREA.--568 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1904 to October 1906, October 1909 to current year. Monthly discharge only for some periods, published in WSP 1313. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09239500

REVISED RECORDS .-- WDR C0-00-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 6,695.47 ft above NGVD of 1929. Prior to May 8, 1905, nonrecording gage at bridge 0.2 mi upstream at datum 4.16 ft higher. May 8, 1905 to Oct. 31, 1906, nonrecording gage on bridge 30 ft upstream at datum 0.44 ft higher. Mar. 8, 1910 to Sept. 11, 1934, water-stage recorder on right bank, 60 ft downstream, at datum 0.44 ft higher. Sept. 11, 1934 to Aug. 17, 1988, water-stage recorder on right bank, 60 ft downstream,

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by two diversions for irrigation to Egeria Creek in Colorado River Basin, one diversion for irrigation from Trout Creek drainage to Oak Creek drainage, irrigation of about 19,700 acres upstream from station, and by storage in Stillwater, Yampa, YamColo, Stagecoach, and Catamount Reservoirs, (total capacity 56,895 acre-ft) and pumping of water to ski area for snow making during winter.

DISCHARGE, CUBIC FEET PER SECOND

				YEAR OC	TOBER 2003	TO SEPTEM					
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
98 98 115 121 109	76 96 104 103 92	129 120 105 101 91	98 98 97 95 100	95 95 93 96 96	117 114 116 118 117	345 371 401 393 431	506 489 607 892 1,200	744 866 1,110 1,220 1,260	330 253 208 185 183	72 67 66 61 60	93 98 96 111 165
96 91 87 85 82	88 85 94 95 101	84 89 95 85 85	90 99 102 98 93	93 91 95 95 91	116 117 123 126 129	464 490 524 594 540	1,450 1,620 1,720 1,700 1,730	1,330 1,360 1,280 1,170 960	181 161 146 132 118	61 57 52 47 41	169 168 126 91 78
76 72 72 72 72 73	104 107 110 122 118	89 86 84 87 84	92 92 93 95 96	97 94 96 96 97	131 133 137 142 154	442 398 365 359 361	1,760 1,480 1,200 983 887	733 662 658 636 601	111 101 94 90 100	44 48 48 44 45	75 72 71 67 61
74 73 74 72 70	115 121 128 127 134	84 82 91 98 89	101 96 94 96 99	98 97 98 99 101	156 165 180 202 231	388 462 548 528 473	955 986 1,190 1,500 1,690	541 547 725 610 538	160 132 114 104 93	40 42 59 77 91	56 51 55 63 106
71 73 71 73 70	137 131 134 137 133	93 97 92 95 96	97 92 94 98 97	99 99 105 105 109	258 295 345 408 471	457 423 374 351 337	1,610 1,460 1,230 1,190 1,050	609 511 402 339 303	93 85 83 92 95	91 83 78 68 65	180 173 152 142 163
66 67 70 70 68 71	131 128 131 137 131	103 100 96 95 97 98	99 101 101 101 99 98	118 130 125 120	446 496 428 356 320 319	328 373 467 528 566	1,000 1,130 1,290 1,260 971 795	272 250 250 260 333	87 89 83 79 76 74	63 87 80 77 73 80	177 194 188 167 242
2,480 80.0 121 66 4,920	3,450 115 137 76 6,840	2,920 94.2 129 82 5,790	3,001 96.8 102 90 5,950	2,923 101 130 91 5,800	6,966 225 496 114 13,820	13,081 436 594 328 25,950	37,531 1,211 1,760 489 74,440	21,080 703 1,360 250 41,810	3,932 127 330 74 7,800	1,967 63.5 91 40 3,900	3,650 122 242 51 7,240
					,		` ′	1 777	250	150	110
378 (1998) 49.6 (1935)	126 274 (1998) 69.3 (1978)	205 (1998) 56.6 (1916)	190 (1998) 45.0 (1916)	103 176 (1998) 50.0 (1916)	168 433 (1910) 73.5 (1964)	1,675 (1962) 236 (1995)	1,718 3,350 (1984) 702 (1977)	3,771 (1917) 141 (1934)	1,684 (1957) 16.2 (1934)	387 (1984) 40.5 (1931)	110 432 (1997) 19.5 (1944)
RY STATIST	TICS		FOR 2003 CA	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 19	10 - 2004
MEAN ANNUAL M ANNUAL M ANNUAL M DAILY ME DAILY ME SEVEN-DA M PEAK FL IM PEAK ST RUNOFF (A ENT EXCEE)	MEAN AN AN Y MINIMUN OW 'AGE AC-FT) DS DS	М	147,256 403 4,590 52 55 292,100 1,070 101 72	Jan	9	1,76 4 4 1,95 204,30 81	0 May 0 Aug 4 Aug 0 May 4.72 May 06	16 10 10	5,5,6 b6,6,332,;	321 169 370 J a4.0 S 4.9 S 320 J c7.08 J	1984 1977 un 14, 1921 ep 8, 1934 ep 9, 1944 un 14, 1921 un 14, 1921
	98 98 98 115 121 109 96 91 87 85 82 76 72 72 72 72 73 74 73 74 72 70 71 73 71 73 70 66 67 70 70 68 71 2,480 80.0 121 66 4,920 ICS OF MON 134 378 (1998) 49.6 (1935) RY STATIST TOTAL MEAN ANNUAL MANNUAL MANNU	98 76 98 96 115 104 121 103 109 92 96 88 91 85 87 94 85 95 82 101 76 104 72 107 72 110 72 122 73 118 74 115 73 121 74 128 72 127 70 134 71 137 73 131 71 134 73 131 71 134 73 137 70 133 66 131 67 128 70 131 70 137 68 131 71 2,480 3,450 80.0 115 121 137 68 131 71 2,480 3,450 80.0 115 121 137 66 76 4,920 6,840 ICS OF MONTHLY MEA  ISA 126 378 274 (1998) (1998) 49.6 69.3 (1935) (1978) RY STATISTICS TOTAL MEAN NUAL MEAN ANNUAL MEAN DAILY MEAN DAILY MEAN	98	OCT NOV DEC JAN  98 76 129 98  98 96 120 98  115 104 105 97  121 103 101 95  109 92 91 100  96 88 84 90  91 85 89 99  87 94 95 102  85 95 85 98  82 101 85 93  76 104 89 92  72 107 86 92  72 107 86 92  72 110 84 93  72 122 87 95  73 118 84 96  74 115 84 101  73 121 82 96  74 128 91 94  72 127 98 96  70 134 89 99  71 137 93 97  73 131 97  73 131 97  74 128 91  75 13 131 97  76 14 4 92 94  77 13 3 131 97  79 2  71 134 92 94  73 131 96 101  70 133 96  70 133 96  70 134 99  66 131 103 99  67 128 100 101  70 131 96 101  70 137 95 98  80.0 115 94.2 96.8  121 137 129 102  66 76 82 90  4,920 6,840 5,790 5,950  ICS OF MONTHLY MEAN DATA FOR WATER YET  134 126 104 100  378 274 205 190  ICS OF MONTHLY MEAN DATA FOR WATER YET  134 126 104 100  378 274 205 190  ICS OF MONTHLY MEAN DATA FOR WATER YET  134 126 104 100  378 274 205 190  ICS OF MONTHLY MEAN DATA FOR WATER YET  134 126 104 100  378 274 205 190  ICS OF MONTHLY MEAN DATA FOR WATER YET  134 126 104 100  378 274 205 190  ICS OF MONTHLY MEAN DATA FOR WATER YET  134 126 104 100  378 274 205 190  ICS OF MONTHLY MEAN DATA FOR WATER YET  134 126 104 100  378 274 205 190  ICS OF MONTHLY MEAN DATA FOR WATER YET  134 126 104 100  378 274 205 190  ICS OF MONTHLY MEAN DATA FOR WATER YET  134 126 104 100  378 274 205 190  ICS OF MONTHLY MEAN DATA FOR WATER YET  134 126 104 100  378 274 205 190  ICS OF MONTHLY MEAN DATA FOR WATER YET  134 126 104 100  378 274 205 190  ICS OF MONTHLY MEAN DATA FOR WATER YET  134 126 104 100  378 274 205 190  ICS OF MONTHLY MEAN ANNUAL MEAN  ANOU AL MEAN  ANDUAL M	OCT NOV DEC JAN FEB  98 76 129 98 95  98 96 120 98 95  115 104 105 97 93  121 103 101 95 96  109 92 91 100 96  96 88 84 90 93  91 85 89 99 91  87 94 95 102 95  885 95 85 98 95  82 101 85 93 91  76 104 89 92 97  72 107 86 92 94  72 107 86 92 94  72 110 84 93 96  73 118 84 96 97  74 115 84 101 98  73 121 82 96 97  74 115 84 101 98  73 121 82 96 97  74 115 89 194 98  75 102 95  76 104 89 92 97  77 110 34 89 99 101  78 13 13 97 92 99  79 11 137 93 97 99  70 134 89 99 101  71 137 93 97 99  71 134 92 94 105  73 131 97 92 99  71 134 92 94 105  70 133 96 97 109  66 131 103 99 118  67 128 100 101 120  68 131 97 99 99  71 134 92 94 105  70 133 96 97 109  66 131 103 99 118  67 128 100 101 120  68 131 97 99 99  71 134 92 94 105  70 137 95 98 105  70 131 96 101 125  70 137 95 98 105  70 131 96 101 125  70 131 96 101 125  70 131 96 101 125  70 131 96 101 125  70 131 96 101 125  70 131 96 101 125  70 131 96 101 125  70 131 96 101 125  70 131 96 101 125  70 131 96 101 125  70 131 96 101 125  70 131 96 101 125  70 131 96 101 125  70 131 96 101 125  70 131 96 101 125  70 131 96 101 125  70 131 96 101 125  70 131 96 101 125  70 131 96 101 125  70 131 97 99  98 98  2,480 3,450 2,920 3,001 2,923  80.0 115 94.2 96.8 101  121 137 129 102 130  66 76 82 90 91  4,920 6,840 5,790 5,950 5,800  ICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910  RY STATISTICS FOR 2003 CALENDAR  **TOTAL 4004  MEAN  ANNUAL MEAN  ANNUAL MEAN  ANNUAL MEAN  ANNUAL MEAN  ANNUAL MEAN  ANNUAL MEAN  DAILY MEAN  DAILY MEAN  52 Jan  MEAN  ANNUAL MEAN  ANUAL MEAN  ANNUAL MEAN  ANNUAL MEAN  ANNUAL MEAN  ANNUAL MEAN  ANU	OCT NOV DEC JAN FEB MAR  98 76 129 98 95 117  98 96 120 98 95 114  115 104 105 97 93 116  121 103 101 95 96 118  109 92 91 100 96 117  96 88 84 90 93 116  91 85 89 99 91 117  87 94 95 102 95 123  88 95 126  82 101 85 93 91 129  76 104 89 92 97 131  72 110 84 93 96 137  72 110 84 93 96 137  72 110 84 93 96 137  72 110 84 93 96 137  72 110 84 93 96 137  72 112 87 95 96 142  73 118 84 96 97 155  74 115 84 101 98 156  73 121 82 96 97 165  74 128 91 94 98 180  70 131 97 92 99 202  71 137 93 97 99 258  73 131 97 92 99 205  71 134 92 94 105 345  73 137 95 98 105 408  66 131 97 92 99 295  73 131 96 101 125 428  66 131 97 99 320  66 131 96 101 125 428  80.0 115 94.2 96.8 101 225 428  80.0 115 94.2 96.8 101 225  66 76 82 90 91 114  ANNUAL MEAN AN	OCT NOV DEC JAN FEB MAR APR  98 76 129 98 95 117 345  98 96 120 98 95 114 371  115 104 105 97 93 116 401  121 103 101 95 96 118 393  109 92 91 100 96 117 431  96 88 84 90 93 116 464  91 85 89 99 91 117 490  87 94 95 102 95 123 524  88 95 95 85 98 95 126 594  82 101 85 93 91 112 129 540  76 104 89 92 97 131 442  72 107 86 92 94 133 398  72 110 84 93 96 137 365  72 122 87 95 96 142 359  73 118 84 96 97 154 361  74 115 84 101 98 156 388  73 121 82 96 97 165 462  74 128 91 94 98 180 548  75 121 137 93 97 99 225  76 134 89 99 101 231 473  71 137 93 97 99 258 457  73 131 97 99 209 542  74 115 84 101 98 156 388  75 121 127 98 96 99 101 231 473  71 137 93 97 99 258 457  73 131 97 92 99 101 231 473  74 134 92 94 105 345 374  75 13 131 97 92 99 205 423  76 131 134 92 94 105 345 374  77 133 137 95 98 105 408 351  70 133 96 101 120 566 528  66 131 103 99 118 446 328  67 128 100 101 125 428 467  70 137 95 96 101 231 473  71 137 93 97 99 258 457  70 131 96 101 120 356 528  80.0 115 94.2 966 101 125 428 467  70 137 95 101 120 356 528  80.0 15 94.2 906 11 225 428  49.6 69.3 56.6 45.0 50.0 73.5 236  ANNUAL MEAN  ANNUAL MEAN  ANUAL MEAN  ANUAL MEAN  DAILY MEAN  ANUAL MEAN  DAILY MEAN  DAILY MEAN  TO TOTAL  M PEAK STAGE  RUNOFF (AC-FT)  EVENTERICEDS  101 101 101 101 101 101 101 101 101 10	OCT NOV DEC JAN FEB MAR APR MAY  98 76 129 98 95 117 345 506  98 96 120 98 95 114 371 489  115 104 105 97 93 116 401 607  121 103 101 95 96 118 393 892  109 92 91 100 96 117 431 1,200  96 88 84 90 93 116 464 1,450  87 94 95 102 95 123 524 1,720  87 94 95 102 95 123 524 1,720  88 101 85 98 99 91 117 490 1,620  87 94 95 102 95 123 524 1,720  88 2 101 85 93 91 129 540 1,730  82 101 85 93 91 129 540 1,730  76 104 89 92 97 131 442 1,760  72 107 86 92 94 133 398 1,480  72 110 84 93 96 137 365 1,200  72 110 84 93 96 137 365 1,200  73 118 84 96 97 154 361 887  74 115 84 101 98 156 388 955  73 121 82 96 97 165 462 986  74 128 91 94 98 196 97 165 462 986  75 127 98 96 99 101 231 473 1,690  70 134 89 99 101 231 473 1,690  71 137 93 97 99 258 445 1,600  71 137 93 97 99 258 445 1,600  71 137 93 97 99 258 445 1,600  71 137 93 97 99 258 457 1,610  73 131 97 92 99 295 423 1,460  74 128 91 94 105 345 345 374 1,230  75 13 131 97 92 99 205 528 1,500  76 131 96 101 125 428 467 1,290  70 133 96 97 109 471 337 1,690  71 137 93 97 99 258 457 1,610  73 131 97 92 99 258 457 1,610  74 128 91 94 105 345 374 1,230  75 131 97 92 99 118 446 328 1,000  76 131 96 101 125 428 467 1,290  77 133 19 96 97 109 471 337 1,690  78 131 97 92 99 18 18 446 328 1,000  79 131 98 98 105 408 351 1,190  70 133 96 97 109 471 337 1,690  66 131 103 99 118 446 328 1,000  67 128 100 101 130 496 594 1,760  68 131 97 99 102 130 496 594 1,760  68 131 97 99 102 130 496 594 1,760  68 131 97 98 98 105 408 351 1,190  70 133 96 97 109 471 337 1,590  66 76 82 90 91 114 328 489  49.6 69.3 56.6 45.0 50.0 73.5 236  68 131 99 99 101 120 356 528 1,200  68 131 99 99 101 120 356 528 1,200  68 131 99 99 101 120 356 528 1,200  68 131 99 99 101 120 356 528 1,200  68 131 99 99 101 120 356 528 1,200  68 131 99 99 101 120 356 528 1,200  68 131 99 99 101 120 356 528 1,200  68 131 99 99 101 120 356 528 1,200  68 131 99 99 101 120 356 528 1,200  70 137 98 98 99 101 120 356 528 1,200  70 138 42 44 44 44 44 44 44 44 44 44 44 44 44	WATER YEAR OCTIOBER 2003 TO SEPTEMBER 2004	WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004	OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG  98 76 129 98 95 117 344 506 744 330 72  113 104 129 98 95 117 344 506 744 330 72  113 105 106 129 98 95 117 345 506 123 666 121 103 101 95 96 118 393 892 1120 1250 1183 60  112 103 101 95 96 118 393 892 1120 1250 1183 60  112 103 101 95 96 118 393 892 1120 1183 60  112 103 101 95 96 118 393 892 1120 1183 60  112 103 101 95 96 118 393 892 1120 1183 60  112 103 101 105 97 117 490 1.620 1130 1181 61  113 115 116 117 490 1.620 1130 1183 60  114 117 490 1.620 1130 1183 60  115 117 418 117 490 1.620 1130 1181 61  117 491 117 490 1.620 1130 1181 61  118 118 118 119 117 490 1.620 1130 1181 61  118 118 118 119 117 490 1.620 1130 1181 61  118 118 118 118 119 119 119 119 119 119

Also occurred Sep 10-13, 1944.

b Present datum, from rating curve extended above 4,800 ft<sup>3</sup>/s. c Maximum gage height, 7.65 ft, Jun 3, 1997.

## 09242500 ELK RIVER NEAR MILNER, CO

 $LOCATION. --Lat\ 40^{\circ}30'53", long\ 106^{\circ}57'12", in\ NW^{1}_{4}NW^{1}_{4}\ sec.5, T.6\ N., R.85\ W., Routt\ County, Hydrologic\ Unit\ 14050001, on\ left\ bank\ 30\ ft\ downstream\ from\ bridge\ on\ County\ Road\ 44,\ 2.5\ mi\ upstream\ from\ mouth,\ and\ 3.2\ mi\ east\ of\ Milner.$ 

DRAINAGE AREA.--460 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1904 to September 1927 (published as "near Trull"). April 1990 to current year. Records for 1910-27 furnished by State Engineer of Colorado. Monthly discharge only for some periods, published in WSP 1313. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09242500

REVISED RECORDS.--WDR CO-98-2:1997 (M). WDR CO-00-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,590 ft above NGVD of 1929, from topographic map. May 1904 to Sept. 1909, nonrecording gage, at different datum, Oct. 1910 to Sept. 1927, water-stage recorder at different datum.

REMARKS.—Records good except for estimated daily discharges, which are poor. During high flows, channel overflow may occur and cause some streamflow to bypass gage. Diversions upstream from station for irrigation. Natural flow of stream affected by storage in Lester Creek Reservoir (known also as Pearl lake), capacity, 5,660 acre-ft, since 1963, and Steamboat lake, capacity, 23,060 acre-ft, since 1968.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES  DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	59	58	e73	e53	e49	e71	485	868	830	1,270	168	79		
2	59	72	e63	e53	e49	e68	600	865	824	852	159	70		
3	63	87	e48	e52	e47	e70	686	1,110	1,200	711	152	67		
4	68	79	e44	e50	e50	e72	671	1,440	1,610	636	150	104		
5	62	77	e36	e55	e50	e71	847	1,910	1,750	607	145	191		
6	59	e70	e32	e46	e47	e70	976	2,310	1,880	575	150	192		
7	53	e68	e36	e54	e45	e73	1,080	2,450	2,150	496	134	177		
8	52	e70	e42	e57	e49	e80	1,190	2,490	2,070	454	122	137		
9	55	e70	e36	e53	e49	e83	1,260	2,460	1,960	421	108	106		
10	54	e75	e36	e48	e45	e86	1,210	2,480	1,750	388	103	99		
11	56	e77	e40	e48	e51	e88	972	2,460	1,310	370	97	100		
12	60	e80	e38	e48	e48	e90	887	1,820	1,030	356	98	96		
13	56	82	e38	e49	e51	e96	819	1,560	994	327	109	93		
14	53	100	e39	e51	e50	e104	903	1,350	1,140	304	106	104		
15	49	93	e38	e52	e52	e119	819	1,280	1,290	312	103	105		
16	49	89	e38	e55	e52	e121	864	1,290	1,210	586	101	93		
17	50	89	e37	e51	e51	156	955	1,270	1,260	421	103	83		
18	48	73	e45	e48	e52	157	974	1,440	1,380	360	109	81		
19	48	82	e51	e51	e53	194	820	1,690	1,190	313	210	87		
20	50	91	e44	e53	e55	281	762	1,920	1,110	290	186	207		
21	49	97	e47	e51	e53	349	742	2,060	1,330	288	173	368		
22	47	86	e51	e47	e53	412	681	1,830	1,060	259	159	273		
23	45	77	e47	e48	e59	522	612	1,430	849	265	143	233		
24	44	e82	e50	e52	e59	564	625	1,450	822	250	134	222		
25	44	e77	e50	e51	e63	600	603	1,230	817	231	106	280		
26 27 28 29 30 31	39 42 44 44 42 49	e74 e71 e75 e81 e74	e55 e52 e51 e52 e53 e53	e53 e55 e55 e55 e53 e52	e72 e85 e79 e74 	611 604 452 368 363 390	596 733 962 1,040 1,000	1,090 1,120 1,270 1,710 1,200 949	789 758 690 692 1,420	225 212 198 187 181 183	91 129 135 109 95 88	308 311 301 303 429		
TOTAL	1,592	2,376	1,415	1,599	1,592	7,385	25,374	49,802	37,165	12,528	3,975	5,299		
MEAN	51.4	79.2	45.6	51.6	54.9	238	846	1,607	1,239	404	128	177		
MAX	68	100	73	57	85	611	1,260	2,490	2,150	1,270	210	429		
MIN	39	58	32	46	45	68	485	865	690	181	88	67		
AC-FT	3,160	4,710	2,810	3,170	3,160	14,650	50,330	98,780	73,720	24,850	7,880	10,510		
MEAN MAX (WY) MIN (WY)	138 424 (1919) 51.4 (2004)	109 234 (1919) 58.0 (1991)	90.2 154 (1998) 45.6 (2004)	85.9 135 (1998) 51.5 (1992)	88.9 145 (1921) 45.9 (1991)	- 2004, BY W 169 320 (1916) 52.0 (1991)	730 1,214 (1919) 377 (1995)	2,082 3,977 (1920) 940 (1990)	2,138 3,824 (1917) 749 (2002)	652 1,940 (1917) 88.2 (2002)	163 445 (1912) 30.3 (2002)	114 518 (1997) 33.1 (1994)		
SUMMAR	Y STATIST	ICS		FOR 2003 CA	LENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 190	05 - 2004		
LOWEST A HIGHEST LOWEST I ANNUAL MAXIMUM ANNUAL 10 PERCEI 50 PERCEI	MEAN ANNUAL M ANNUAL M DAILY ME DAILY ME	IEAN AN AN Y MINIMUM OW AGE AC-FT) OS OS	1	182,319 500 4,960 e32 37 361,600 1,730 86 50	Jun Dec Dec	6	2,99 297,70 1,26 10	0 May 2 Dec 7 Dec 10 May 5.57 May 0	6 5 8	a5,7 400,3	3.7 So 5.3 So 740 Ju b7.18 Ju	1917 2002 un 15, 1921 ep 5, 2002 ep 1, 2002 un 3, 1997 un 3, 1997		

e Estimated.

a Peak discharge includes 370 ft<sup>3</sup>/s overflow that bypassed the main changel.

b Gage height reflects the discharge flowing in the main channel (5,370 ft<sup>3</sup>/s).

## 09244490 YAMPA RIVER ABOVE ELKHEAD CREEK NEAR HAYDEN, CO

 $LOCATION.--Lat~40°31'05", long~107°23'57", in~NE^{1}_{4}SW^{1}_{2} sec. 32,~T.7~N.,~R.89~W.,~Routt~County,~Hydrologic~Unit~14050001, on~right~bank~3.3~mi~upstream~from~the~mouth~of~Elkhead~Creek,~and~7.6~mi~northwest~of~Hayden.$ 

DRAINAGE AREA.--1,576 mi<sup>2</sup>.

PERIOD OF RECORD.--March to September 2004. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09244490

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,240 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Record good. Natural flow of stream affected by diversions for irrigation, powerplant at Hayden, transbasin diversions, storage reservoirs, and return flow from irrigated areas.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period March to September, 5,110 ft<sup>3</sup>/s, May 11, gage height, 4.61 ft; minimum daily, 84 ft<sup>3</sup>/s, Aug. 17.

## DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							983	1,760	1.860	1.800	249	125
2							1,140	1,600	1,760	1,270	219	122
3							1,280	1,800	2,090	986	210	117
4							1,310	2,230	2,610	849	204	125
5							1,420	2,810	2,790	808	196	232
6							1,700	3,610	3,060	773	195	360
7							1,860	4,090	3,400	684	190	342
8							2,030	4,340	3,390	609	168	325
9							2,200	4,310	3,170	553	151	250
10							2,190	4,330	2,870	512	126	203
11							1,900	4,480	2,330	473	110	202
12							1,680	3,570	1,980	451	94	190
13							1,520	2,990	1,860	429	102	181
14							1,490	2,540	1,900	406	96	169
15							1,440	2,310	2,010	397	98	156
16						497	1,450	2,290	1,930	524	91	144
17						505	1,620	2,270	1,950	639	84	126
18						584	1,780	2,410	2,110	482	98	116
19						697	1,780	2,800	2,100	440	122	123
20						906	1,600	3,390	1,820	408	244	151
21						1,060	1,500	3,620	1,940	391	230	403
22						1,190	1,490	3,380	1,920	377	223	476
23						1,410	1,290	2,710	1,440	361	209	426
24						1,580	1,200	2,610	1,260	369	178	384
25						1,750	1,150	2,430	1,190	363	149	396
26						1,720	1,120	2,260	1,140	345	119	439
27						1,610	1,200	2,220	1,080	318	130	463
28						1,340	1,530	2,420	1,010	304	175	467
29						1,070	1,800	2,880	926	283	176	457
30						949	1,910	2,540	1,440	270	156	495
31						912		2,070		264	127	
TOTAL							46,563	89,070	60,336	17,138	4,919	8,165
MEAN							1,552	2,873	2,011	553	159	272
MAX						2,200	4,480	3,400	1,800	249	495	
MIN						983	1,600	926	264	84	116	
AC-FT							92,360	176,700	119,700	33,990	9,760	16,200

## 09246200 ELKHEAD CREEK ABOVE LONG GULCH NEAR HAYDEN, CO

LOCATION.--Lat 40°35′30″, long 107°19′13″, in NW 4SE 4 sec.1, T.7 N., R.89 W., Routt County, Hydrologic Unit 14050001, on left bank 0.3 mi upstream from Long Gulch, and 9.0 mi northwest of Hayden.

DRAINAGE AREA.--171 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1995 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=09246200

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage 6,405 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow affected by diversions for irrigation of several hundred acres upstream from

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES  DAY OCT NOV DEC IAN EER MAR APR MAY IUN IIII AUG SEP													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	0.76	4.8	e3.5	e6.1	e10	e9.6	162	252	71	11	1.7	0.80		
2	1.1	e4.2	e3.3	e6.5	e9.2	e11	208	240	64	10	1.5	0.55		
3	1.5	e4.2	e3.2	e7.0	e9.2	e9.5	219	284	59	7.9	1.5	0.44		
4	1.6	e3.9	e3.0	e7.2	e9.8	e8.8	214	352	54	6.7	1.2	0.48		
5	2.1	e3.7	e2.9	e7.4	e9.0	e9.2	303	377	48	6.9	1.3	3.8		
6	2.3	e3.4	e2.9	e7.6	e8.9	e9.5	365	390	40	6.8	1.7	9.7		
7	2.1	e2.8	e3.2	e7.8	e8.4	e8.6	364	360	36	6.1	1.3	6.1		
8	2.1	e3.1	e3.5	e8.0	e8.2	e9.1	398	328	31	5.2	1.1	3.9		
9	2.0	e3.4	e3.4	e8.2	e8.2	e8.9	500	302	28	4.4	0.96	2.6		
10	2.1	e3.9	e3.2	e8.2	e7.9	e9.6	360	274	26	3.7	0.74	1.9		
11 12 13 14 15	2.1 2.1 2.1 2.2 2.2	e4.4 e3.8 e3.3 e3.7 e4.0	e3.5 e3.3 e3.3 e3.3 e4.5	e8.3 e8.5 e9.0 e9.9	e8.1 e7.9 e7.7 e7.5 e7.6	e16 e9.0 e24 e26 e40	231 204 175 237 257	256 257 265 223 225	25 22 23 20 16	2.8 3.8 5.2 4.6 4.2	0.50 0.28 0.15 0.06 0.03	1.6 1.4 1.4 1.3 0.96		
16	2.3	e3.5	e3.6	e11	e7.6	48	254	211	15	7.1	0.02	0.90		
17	2.4	e3.6	e3.7	e10	e7.8	57	328	196	15	8.0	0.02	0.77		
18	2.6	e2.8	e4.5	e10	e8.2	80	319	182	22	7.0	0.02	0.66		
19	2.7	e2.4	e4.6	e11	e8.5	99	250	179	24	8.0	0.02	0.91		
20	2.5	e3.4	e5.0	e12	e9.1	108	226	170	25	5.3	0.02	2.2		
21	2.5	e4.1	e5.6	e11	e9.4	119	225	155	26	4.0	1.1	9.8		
22	2.8	e3.6	e6.3	e11	e9.8	132	202	134	34	3.3	2.8	11		
23	e2.7	e2.8	e5.5	e11	e9.9	163	184	123	22	2.8	2.1	9.9		
24	e2.6	e3.0	e5.1	e13	e10	170	219	114	16	2.5	1.5	8.5		
25	e2.5	e3.3	e6.2	e13	e10	182	195	113	14	2.4	1.5	7.5		
26 27 28 29 30 31	e2.4 2.3 2.9 3.1 3.4 4.4	e3.3 e3.1 e3.5 e3.6	e7.7 e8.6 e8.4 e8.3 e8.3 e8.3	e14 e14 e13 e12 e12 e12	e9.4 e9.5 e9.4 e9.4	194 201 128 93 91 105	201 252 332 331 336	108 93 89 85 94 80	10 9.1 12 13 12	3.2 2.7 2.4 2.0 1.9 2.0	1.3 1.6 1.7 1.8 1.6 1.1	8.7 6.8 5.7 5.0 5.1		
TOTAL	72.46	105.9	149.7	308.0	255.6	2,178.8	8,051	6,511	832.1	153.9	32.22	120.37		
MEAN	2.34	3.53	4.83	9.94	8.81	70.3	268	210	27.7	4.96	1.04	4.01		
MAX	4.4	4.8	8.6	14	10	201	500	390	71	11	2.8	11		
MIN	0.76	2.4	2.9	6.1	7.5	8.6	162	80	9.1	1.9	0.02	0.44		
AC-FT	144	210	297	611	507	4,320	15,970	12,910	1,650	305	64	239		
MEAN	9.86	11.5	11.4	13.1	14.9	69.3	340	582	126	12.2	3.97	6.73		
MAX	39.5	33.2	34.0	34.5	39.3	151	493	1,189	337	42.5	13.5	37.6		
(WY)	(1998)	(1998)	(1998)	(1998)	(1998)	(1998)	(1998)	(1997)	(1997)	(1998)	(1997)	(1997)		
MIN	2.34	3.53	4.65	5.66	6.74	18.1	162	78.9	5.24	0.03	0.00	0.00		
(WY)	(2004)	(2004)	(2003)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)		
SUMMAR	RY STATIST	ICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 199	5 - 2004		
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE 50 PERCE	MEAN ANNUAL M ANNUAL M DAILY ME DAILY ME	IEAN AN AN Y MINIMUN OW AGE AC-FT) OS OS	4	1,030 ( 60,644 34	) May ).01 Aug ).01 Aug	15	18,77,5 50 67 37,23 21	51.3 00 Ap 0.02 Aug 0.03 Aug 77 Ap 4.75 Ap	r 9 g 16 g 14 r 9 r 9	1,i b2,7 72,i	a0.00 Ju 0.00 Ju 760 Ma 7.86 Ma	1997 2002 y 7, 1997 il 8, 2002 il 16, 2002 y 7, 1997 y 7, 1997		

e Estimated.

a Also occurred Jul 9 and Jul 16 to Sep 29, 2002. b From rating extended above 1,120 ft<sup>3</sup>/s.

## 09246400 ELKHEAD CREEK BELOW MAYNARD GULCH NEAR CRAIG, CO

 $LOCATION.--Lat~40^{\circ}32'31'', long~107^{\circ}23'50'', in~SW^{1}_{4}SE^{1}_{4}~sec. 20,~T.7~N.,~R.89~W.,~Moffat~County,~Hydrologic~Unit~14050001,~on~left~bank~2.0~mi~downstream~from~Maynard~Gulch,~and~8.5~mi~northeast~of~Craig.$ 

DRAINAGE AREA.--212 mi<sup>2</sup>.

 $PERIOD\ OF\ RECORD. -- August\ 1995\ to\ current\ year.\ For\ a\ complete\ listing\ of\ historical\ data\ available\ for\ this\ site,\ see\ http://waterdata.usgs.gov/co/nwis/inventory/\\ ?site\_no=09246400$ 

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,280 ft above NGVD of 1929, from topographic map.

REMARKS.--Record fair except for estimated daily discharges, which are poor. Natural flow affected by diversions for irrigation of several hundred acres upstream from station and storage in Elkhead Reservoir.

					R YEAR OC	E, CUBIC FEE TOBER 2003 ILY MEAN V	TO SEPTEM					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.72 0.88 1.5 1.5	1.8 2.4 2.9 2.4 2.0	1.7 1.7 1.5 1.5 1.6	e5.7 e5.8 e6.5 e5.9 e6.1	e7.0 e8.0 e8.0 e8.0 e7.0	e12 e11 e11 e11	133 206 238 236 269	284 245 261 306 348	73 65 59 55 51	13 12 10 9.5 8.1	2.0 2.0 1.7 1.6 1.7	1.3 1.2 1.2 1.4 1.6
6 7 8 9 10	1.3 1.1 1.2 1.1 1.2	1.9 1.9 1.9 2.0 2.7	1.7 2.0 2.6 2.4 2.2	e6.9 e8.9 e8.4 e7.6 e7.8	e7.0 e8.0 e8.0 e8.0 e8.0	e10 e9.0 e11 e12 e16	332 351 352 461 403	375 361 331 308 280	47 41 37 34 30	7.8 7.8 7.3 6.7 4.0	1.7 1.5 1.5 1.5 1.5	1.4 1.4 1.4 1.3 1.4
11 12 13 14 15	1.2 0.72 0.63 1.3 1.3	2.3 1.9 2.0 1.9 2.0	2.1 2.0 2.0 2.1 e2.1	e8.2 e8.5 e7.6 e7.7 e9.0	e8.0 e8.0 e8.0 e7.5 e8.0	20 27 35 44 50	278 226 191 206 249	260 271 290 258 230	23 27 29 30 27	4.1 3.6 2.9 2.9 2.8	1.4 1.4 1.4 1.4	1.3 1.2 1.1 1.2 1.0
16 17 18 19 20	1.2 1.5 1.2 0.99 0.91	2.0 2.1 1.9 1.9	e2.1 e2.2 e2.5 e2.6 e2.7	e8.0 e7.0 e7.0 e7.0 e8.0	e7.0 e8.0 e8.0 e8.0 e9.0	48 52 68 89 133	253 292 311 283 241	216 208 191 184 169	24 24 29 29 29	3.3 3.1 2.8 3.2 2.9	1.4 1.4 1.6 1.6 1.5	1.0 0.96 1.0 1.3 1.4
21 22 23 24 25	0.70 e0.71 0.69 0.78 0.93	1.8 2.3 1.8 1.3 1.5	e2.5 e2.4 e2.4 e2.8 e3.2	e7.0 e7.0 e7.0 e8.0 e7.0	e9.5 e10 e10 e10 e10	136 153 182 212 215	228 217 188 198 201	154 132 113 102 103	31 34 33 25 20	3.1 3.4 3.3 3.2 3.0	1.4 1.4 1.4 1.4	1.5 1.4 1.4 1.4 1.3
26 27 28 29 30 31	1.2 1.2 1.3 1.3 1.1 1.9	1.6 1.4 1.1 1.4 1.6	e3.5 e4.1 e5.1 e5.4 e5.9 e6.2	e7.0 e7.0 e7.0 e8.0 e8.0 e8.0	e11 e11 e11 e11	231 252 199 139 106 97	198 225 294 313 326	101 90 83 84 92 83	17 15 13 13 12	2.8 3.0 3.0 2.6 1.9 1.8	1.4 1.5 1.4 1.4 1.4 1.3	1.2 1.2 1.2 1.4 1.4
TOTAL MEAN MAX MIN AC-FT	34.66 1.12 1.9 0.63 69	57.6 1.92 2.9 1.1 114	84.8 2.74 6.2 1.5 168	228.6 7.37 9.0 5.7 453	250.0 8.62 11 7.0 496	2,602.0 83.9 252 9.0 5,160	7,899 263 461 133 15,670	6,513 210 375 83 12,920	976 32.5 73 12 1,940	148.9 4.80 13 1.8 295	46.6 1.50 2.0 1.3 92	38.46 1.28 1.6 0.96 76
MEAN MAX (WY) MIN (WY)	9.12 39.3 (1998) 0.81 (2003)	10.7 33.2 (1998) 1.17 (2003)	9.60 29.8 (1998) 1.52 (2003)	11.8 29.6 (1998) 3.09 (2003)	13.4 32.0 (1998) 1.78 (2003)	70.5 169 (1998) 5.16 (2003)	356 503 (1998) 148 (2002)	588 1,224 (1997) 78.0 (2002)	127 362 (1997) 5.31 (2002)	12.0 39.3 (1998) 1.97 (2001)	5.49 13.6 (1997) 1.46 (2001)	6.54 32.0 (1997) 1.05 (2001)
SUMMAI	RY STATIST	TICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 199	5 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE 50 PERCE	MEAN ANNUAL M ANNUAL M DAILY ME DAILY ME	MEAN AN AN Y MINIMUN OW 'AGE AC-FT) DS DS	Л	59,59 38	2.3 8 May 0.50 Sep 0.82 Oct	15	46 51 37,45 22	51.6 51 Ap 0.63 Oc 0.82 Oc 5 Ap 3.70 Ap	r 9 t 13 t 19 r 9	1, 2, 73,	0.15 Se 0.28 Au 430 Ma	1997 2002 20y 4, 1998 ep 3, 2001 gg 30, 2001 ay 8, 1997 ay 8, 1997

e Estimated.

a Maximum gage height, 8.00 ft, Dec 29, 1996, backwater from ice.

## 09246920 FORTIFICATION CREEK NEAR FORTIFICATION, CO

 $LOCATION.--Lat\ 40^{\circ}44'38'', long\ 107^{\circ}32'25'', in\ NW^{1}_{4}NW^{1}_{4}sec.18, T.9\ N., R.90\ W., Moffat\ County, Hydrologic\ Unit\ 14050001, on\ right\ bank\ 10\ ft\ downstream\ from\ County\ Road\ 108, and\ 4.5\ mi\ south\ of\ Fortification.$ 

DRAINAGE AREA.--40 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1984 to September 1991, September 2002 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09246920

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,520 ft above NGVD of 1929, from topographic map. Prior to Sept. 5, 2002 at site 30 ft downsteam at datum 3.00 ft lower.

REMARKS.--Records fair except for estimated daily discharges, and Jan. 13 to Apr. 26, which are poor. Natural flow of stream affected by diversions for irrigation of hay fields above station.

					R YEAR OC		ET PER SECO TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.00 0.00 0.00 0.00 0.00	0.05 0.05 0.06 0.08 0.36	2.2 2.3 2.0 1.7 1.7	e2.1 e2.1 e2.0 2.2 2.3	e1.1 e1.1 e1.1 e1.2	2.9 2.6 2.6 2.7 2.4	13 17 19 21 26	18 19 25 25 28	8.1 8.1 8.4 10	e3.3 2.5 1.8 1.4 0.69	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
6 7 8 9 10	0.00 0.00 0.00 0.00 0.00	0.87 0.73 1.2 1.4 2.0	2.1 2.4 2.0 1.6 1.8	e2.4 e2.3 e2.2 e1.9 2.0	e1.2 e1.3 e1.3 e1.4 e1.5	2.4 2.5 3.2 4.5 8.7	24 19 33 39 29	34 34 33 26 31	12 12 14 13 12	0.44 0.24 0.09 0.10 0.10	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
11 12 13 14 15	0.00 0.00 0.00 0.00 0.00	2.0 1.6 1.7 2.3 2.0	2.1 1.9 1.8 2.0 1.6	2.0 2.1 2.2 2.2 2.2	e1.6 e1.7 e2.0 e2.1 e2.2	13 9.2 15 10 5.5	21 18 15 16 18	32 28 25 20 21	11 11 9.3 8.2 7.0	0.08 0.05 0.07 0.06 0.05	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
16 17 18 19 20	0.00 0.00 0.00 0.00 0.00	1.8 1.9 1.4 1.2 2.0	1.9 1.7 1.6 1.6 1.5	1.8 1.8 1.9 1.8 1.6	e2.6 e2.8 e3.0 e3.0 e3.0	5.8 6.5 7.2 8.5	18 22 24 19 17	22 20 21 23 23	5.6 6.0 e9.9 8.5 6.0	e0.13 e0.16 0.13 0.12 0.12	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
21 22 23 24 25	0.00 0.00 0.01 0.02 0.02	2.1 0.95 0.88 1.4 1.8	1.7 2.0 1.9 1.8 1.8	1.5 1.6 1.7 e1.8 e1.3	e3.0 e3.0 e3.0 e3.1	8.6 8.7 9.8 11	17 17 14 15 15	24 22 19 17 17	e7.3 e8.1 5.6 3.8 3.1	0.09 e0.05 e0.05 e0.06 e0.04	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
26 27 28 29 30 31	0.02 0.02 0.03 0.04 0.04 0.05	1.9 1.7 1.5 1.6 2.0	1.9 1.9 1.9 2.2 2.0 e2.0	e1.2 e1.2 e1.2 e1.2 e1.1 e1.2	3.2 3.5 3.5 3.2	11 11 6.8 5.7 7.5	14 18 24 23 24	18 16 17 16 15	2.7 2.7 2.6 e2.2 e2.4	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
TOTAL MEAN MAX MIN AC-FT	0.25 0.01 0.05 0.00 0.5	40.53 1.35 2.3 0.05 80	58.6 1.89 2.4 1.5 116	56.1 1.81 2.4 1.1 111	64.8 2.23 3.5 1.1 129	229.3 7.40 15 2.4 455	609 20.3 39 13 1,210	700 22.6 34 11 1,390	231.6 7.72 14 2.2 459	11.92 0.38 3.3 0.00 24	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
MEAN MAX (WY) MIN (WY)	2.40 7.48 (1985) 0.01 (2004)	2.46 4.90 (1985) 1.31 (1991)	2.07 4.45 (1985) 1.12 (1988)	2.21 4.64 (1985) 1.29 (1988)	5.21 26.3 (1986) 1.44 (1989)	- 2004, BY W 16.2 33.4 (1986) 2.84 (1988)	33.1 87.0 (1985) 13.4 (1991)	38.8 78.5 (1986) 9.69 (1989)	17.6 58.3 (1986) 6.97 (1987)	1.90 6.41 (1986) 0.07 (1988)	0.32 0.94 (1985) 0.00 (1988)	0.59 1.81 (1986) 0.00 (1990)
SUMMARY STATISTICS ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN			FOR 2003 CALENDAR YEAR  3,541.76 9.70  77 Apr 26		FOR 2004 WATER YEAR 2,002.10 5.47  39 Apr. 9		EAR	WATER YEARS 1985 - 2  10.2 21.6 3.64 208 Mar 25		985 - 2004 1986 1989 Mar 25, 1985		
LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE 50 PERCE	DAILY ME.	AN AY MINIMUN OW TAGE AC-FT) DS DS	И	7,030 20	0.00 Aug 0.00 Oct	7	3,97	0.00 Oc 0.00 Oc 70 Apri 03.41 Apri	t 1 t 1 r 8	7.	a0.00 0.00 465	Jul 12, 1988 Jul 12, 1988 Mar 25, 1985 Mar 25, 1985

e Estimated.

No flow many days, most years.
 Maximum gage height, 3.48 ft, Mar 13, backwater from beaver dam.

## 09247600 YAMPA RIVER BELOW CRAIG, CO

 $LOCATION.--Lat~40^{\circ}28'51", long~107^{\circ}36'49", in~SW^{1}\!\!/_{4}NW^{1}\!\!/_{4}~sec.16, T.6~N., R.91~W., Moffat~County, Hydrologic~Unit~14050001, on left bank~0.5~mi~downstream~from~state~highway~13-789~bridge, and~3.3~mi~southwest~of~Craig.$ 

DRAINAGE AREA.--1,750 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1975 to September 1980 (discharge measurements only). October 1984 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09247600

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,100 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by diversions for irrigation, power plants at Hayden and Craig, transbasin diversions, storage reservoirs, and return flow from irrigated areas.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES  DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	157 157 136 157 180	149 174 e170 e180 e180	e233 e236 e235 e222 e218	e204 e201 e206 e205 e208	e185 e185 e180 e190 e190	e230 e225 e230 e230 e230	1,180 1,410 1,600 1,680 1,770	2,180 1,930 2,040 2,580 3,350	1,900 1,780 2,050 2,730 3,020	1,800 1,400 1,070 914 846	197 189 163 159 152	88 90 81 89 133	
6 7 8 9 10	166 147 125 123 137	e186 e185 e176 e196 e203	e230 e228 e223 e220 e217	e204 e199 e201 e205 e203	e180 e180 e185 e180 e190	e230 e235 e280 341 365	2,100 2,260 2,440 2,810 2,910	4,140 4,600 4,780 4,790 4,730	3,240 3,500 3,610 3,420 3,170	791 716 612 561 510	159 165 142 123 99	312 313 311 252 179	
11 12 13 14 15	130 135 133 131 132	e233 e225 e225 e225 e225	e223 e221 e229 e218 e197	e200 e190 e188 e199 e201	e185 e180 e190 e190 e190	441 529 544 609 639	2,400 2,010 1,810 1,740 1,800	4,820 4,370 3,790 3,210 2,790	2,550 2,040 1,860 1,880 2,010	472 432 412 368 350	91 65 50 61 54	168 164 158 133 135	
16 17 18 19 20	134 125 128 131 134	e225 e221 e227 e213 e206	e199 e186 e188 e189 e197	e203 e205 e192 e185 e195	e190 e190 e195 e195 e200	621 601 705 837 1,080	1,790 1,950 2,140 2,220 1,970	2,690 2,650 2,740 3,200 3,780	1,920 1,940 2,150 2,220 1,870	392 705 498 438 384	23 33 48 57 175	115 109 106 101 115	
21 22 23 24 25	133 134 137 136 139	e227 e220 e174 e199 e205	e210 e220 e227 e223 e225	e190 e180 e185 e190 e190	e195 e195 e205 e205 e215	1,250 1,390 1,590 1,810 1,970	1,830 1,830 1,590 1,500 1,470	4,050 3,880 3,270 2,940 2,710	1,940 2,070 1,590 1,360 1,230	363 347 303 318 312	193 196 191 162 128	300 553 472 437 403	
26 27 28 29 30 31	139 132 125 126 132 141	e210 e219 e217 e230 e227	e215 e210 e205 e203 e205 e208	e195 e200 e200 e200 e195 e190	e230 e260 e245 e235	2,050 1,940 1,760 1,400 1,180 1,100	1,430 1,460 1,820 2,150 2,320	2,470 2,330 2,550 3,050 2,910 2,210	1,170 1,120 1,060 980 1,290	289 267 244 234 204 203	106 109 133 171 135 110	464 517 526 522 516	
TOTAL MEAN MAX MIN AC-FT	4,272 138 180 123 8,470	6,152 205 233 149 12,200	6,660 215 236 186 13,210	6,109 197 208 180 12,120	5,735 198 260 180 11,380	26,642 859 2,050 225 52,840	57,390 1,913 2,910 1,180 113,800	101,530 3,275 4,820 1,930 201,400	62,670 2,089 3,610 980 124,300	16,755 540 1,800 203 33,230	3,839 124 197 23 7,610	7,862 262 553 81 15,590	
STATIST: MEAN	ICS OF MON 303	NTHLY MEA 293	N DATA FC 232	OR WATER YE 227	EARS 1985 278	- 2004, BY W 767	VATER YEAF 2,319	4,783	3,918	928	252	229	
MAX (WY) MIN (WY)	884 (1998) 138 (2004)	506 (1998) 165 (1995)	407 (1985) 141 (2003)	371 (1998) 114 (1989)	841 (1986) 111 (1989)	1,718 (1986) 229 (1988)	4,835 (1985) 931 (1995)	7,524 (1985) 1,961 (2002)	8,471 (1995) 1,139 (2002)	3,683 (1995) 47.5 (2002)	712 (1997) 25.2 (2002)	1,011 (1997) 50.6 (1994)	
SUMMAR	RY STATIST	TICS		FOR 2003 CA	LENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 198	5 - 2004	
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN			443,769 1,216 11,800 Jun 2		305,616 835 4,820 May 11			1,9	213 925 468 900 Ju	1997 2002 n 4, 1997			
ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE	DAILY MEA SEVEN-DA M PEAK FL M PEAK ST RUNOFF (A ENT EXCEE ENT EXCEE	Y MINIMUN OW 'AGE AC-FT) DS	MINIMUM 86 Aug 8 47 Aug 13 8.9 Sep 1, 2 5,280 May 11 12,900 Jun 4, 1 6,78 May 11 10,78 Jun 4, 1 FT) 880,200 606,200 878,500 3,970 2,450 3,930 215 225 333		p 6, 2002 p 1, 2002 n 4, 1997 n 4, 1997								
	ENT EXCEE			125			13				139		

e Estimated.

## 09251000 YAMPA RIVER NEAR MAYBELL, CO

 $LOCATION.--Lat\ 40^{\circ}30'10", long\ 108^{\circ}01'45", in\ SE^{1}_{4}NW^{1}_{4}\ sec.\ 2, T.6\ N., R.95\ W., Moffat\ County, Hydrologic\ Unit\ 14050002, on\ left\ bank\ 60\ ft\ downstream\ from\ bridge\ on\ U.S.\ Highway\ 40,\ 2.0\ mi\ downstream\ from\ Lay\ Creek,\ and\ 3.0\ mi\ east\ of\ Maybell.$ 

DRAINAGE AREA.--3,410 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--April 1904 to October 1905, June 1910 to November 1912, April 1916 to current year. Monthly discharge only for some periods, published in WSP 1313. No winter records prior to 1917. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09251000

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 5,900.23 ft above NGVD of 1929. See WSP 1733 for history of changes prior to Mar. 9, 1937.

REMARKS.—Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transbasin diversions, numerous storage reservoirs, and diversions upstream from station for irrigation of about 65,000 acres upstream from, and about 800 acres downstream from station.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES  DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	156 160 184 167 169	166 183 e200 e190 e190	e280 e270 e265 e265 e260	e255 e250 e255 e255 e260	e255 e250 e260 e265 e255	e305 e315 e330 e360 e390	1,210 1,390 1,630 1,820 1,830	2,790 2,420 2,350 2,860 3,740	2,250 2,010 1,990 2,560 3,170	1,650 1,910 1,300 1,040 917	165 169 163 143 138	97 72 53 57 69		
6 7 8 9 10	200 201 182 162 140	e180 e190 e210 223 241	266 276 286 276 243	e255 e250 e250 e255 e250	e250 e260 e265 e255 e265	e410 e450 e480 e510 e530	2,120 2,430 2,590 2,940 3,390	4,820 5,560 5,910 5,950 5,760	3,370 3,640 3,900 3,810 e3,600	866 799 692 597 542	132 131 139 132 109	86 271 304 299 250		
11 12 13 14 15	147 151 148 153 150	259 e265 e270 e260 e255	262 e260 e240 e211 e220	e250 e240 e240 e250 e250	e250 e260 e265 e275 e270	e535 e625 740 654 673	3,070 2,420 2,160 1,920 2,000	5,720 5,770 4,800 4,110 3,450	e3,240 e2,910 e2,580 e2,180 e2,050	493 450 414 377 332	86 67 61 46 37	179 149 138 133 117		
16 17 18 19 20	147 148 151 140 150	e260 e280 276 268 257	e230 e240 e240 e245 e235	e250 e255 e245 e240 e250	e285 e295 e290 e280 e295	e715 e675 e705 769 933	2,040 2,080 2,400 2,610 2,360	3,180 3,260 3,260 3,700 4,390	2,110 2,020 2,220 2,510 2,200	326 400 677 525 428	39 43 29 22 36	110 105 86 96 95		
21 22 23 24 25	153 152 150 150 147	252 291 230 188 247	e230 e235 e235 e235 e240	e250 e255 e245 e260 e255	e310 e295 e310 e305 e325	1,210 1,370 1,540 1,790 2,010	2,160 2,090 1,950 1,710 1,680	4,880 4,980 4,550 3,860 e3,920	1,950 2,220 1,960 1,560 1,350	363 339 324 279 316	100 185 177 175 146	103 307 592 497 457		
26 27 28 29 30 31	141 159 142 143 138 156	e260 e275 e275 e280 e275	e250 e250 e255 e250 e250 e250	e250 e265 e270 e270 e275 e265	e345 e310 e305 e295	2,190 2,200 2,160 1,730 1,390 1,240	1,640 1,610 1,850 2,490 2,830	e3,500 e3,070 e2,800 3,080 3,680 2,850	1,300 1,200 1,140 1,110 1,080	319 261 252 225 188 171	106 104 94 97 140 118	429 493 546 548 545		
TOTAL MEAN MAX MIN AC-FT	4,837 156 201 138 9,590	7,196 240 291 166 14,270	7,755 250 286 211 15,380	7,865 254 275 240 15,600	8,145 281 345 250 16,160	29,934 966 2,200 305 59,370	64,420 2,147 3,390 1,210 127,800	124,970 4,031 5,950 2,350 247,900	69,190 2,306 3,900 1,080 137,200	17,772 573 1,910 171 35,250	3,329 107 185 22 6,600	7,283 243 592 53 14,450		
				OR WATER YE				` ′	5 440	1.264	272	245		
MEAN MAX (WY) MIN (WY)	345 1,174 (1998) 117 (1964)	351 768 (1998) 184 (1977)	295 624 (1948) 137 (1964)	278 610 (1948) 115 (1934)	332 1,071 (1986) 160 (1964)	719 2,063 (1986) 221 (1964)	2,589 6,496 (1962) 735 (1944)	6,211 14,000 (1984) 1,850 (1977)	5,440 12,810 (1917) 548 (1934)	1,364 5,819 (1957) 20.4 (1934)	373 1,052 (1957) 12.7 (2002)	245 1,366 (1997) 27.8 (1934)		
SUMMAI	RY STATIST	TICS		FOR 2003 CA	LENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 1	916 - 2004		
ANNUAL HIGHEST LOWEST	ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN			508,913 1,394			352,69 96	4		1,547 3,025 477		1984 1977		
LOWEST ANNUAL MAXIMU	T DAILY ME DAILY ME SEVEN-DA JM PEAK FL JM PEAK ST	AN Y MINIMUN .OW	Л	12,900 43 59	Jun Aug Aug	11	6,35	2 Aug 6 Aug	; 19 ; 14 · 9	24,4 25,1	1.8 2.6 00	May 17, 1984 Aug 31, 2002 Aug 28, 2002 May 17, 1984 May 17, 1984		
ANNUAL 10 PERCI 50 PERCI	ENT EXCEES ENT EXCEES ENT EXCEES	AC-FT) DS DS		1,009,000 4,640 247 135			699,60 2,88 27 13	0 0 5	,		000	11, 1704		

e Estimated.

#### 09253000 LITTLE SNAKE RIVER NEAR SLATER, CO

LOCATION.--Lat 40°59'58", long 107°08'34", in SW1/4NW1/4 sec.15, T.12 N., R.87 W., Routt County, Hydrologic Unit 14050003, on left bank just downstream from highway bridge at Focus Ranch, 0.2 mi downstream from Spring Creek, and 12 mi east of Slater.

PERIOD OF RECORD.--October 1942 to September 1947, October 1950 to September 1999, April 2001 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09253000

REVISED RECORDS.--WSP 1733: 1960.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 6,831.00 ft above NGVD of 1929.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 2,000 acres upstream from station.

#### DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES DAY OCT NOV DEC JUN JUL AUG SEP JAN FEB MAR MAY e30 199 375 16 e21 e2.7e26 e27 355 183 29 16 27 e23 e27 e29 e2.7 e26 242 383 343 2 16 137 15 e25 e30 e27 277 343 29 3 27 e28 e27 459 117 14 26 e24 e30 285 494 351 27 20 e28 e28 e26 5 20 e25 e28 e29 e28 e28 334 584 356 113 25 59 19 105 6 7 e24 e30 e29 e26 367 653 26 46 e34 365 19 e26 e29 e25 e52 380 25 28 e28 676 8 e26 e30 e29 e28 e60 406 676 369 85 22 22 18 Q 19 e25 e27 e29 e27 70 412 672 346 78 20 19 10 19 e27 e28 e28 e26 71 340 671 310 73 18 18 11 20 e28 e29 e29 e29 679 17 19 67 269 266 68 20 e28 e30 e29 e30 65 238 640 245 17 18 20 20 e27 e27 e29 e29 59 56 20 26 13 e29 e30 66 217 580 229 16 15 264 209 520 e28 e30 66 14 15 21 e26 e29 e30 e29 60 276 522 202 54 14 22 75 22 56 499 15 10 16 e26 e30 e30 e31 301 240 22 18 17 17 e26 e31 e29 e31 54 370 489 320 64 15 $\overline{22}$ e28 53 e27 e31 e31 383 503 386 56 18 18 22 19 e28 e30 e29 e31 62 312 589 296 52 30 18 22 20 e28 e29 79 293 610 261 47 31 52 e30 e31 23 79 21 94 45 31 e28 e30 e28 e30 281 632 360 23 e28 e29 e27 112 258 612 289 42 28 61 e31 23 23 e27 227 220 52 29 e28 e27 e30 555 50 24 24 e30 e28 e27 e29 180 237 508 193 44 26 52 25 23 e28 e30 e28 e30 239 232 479 180 39 23 68 20 23 26 e26 e31 e28 e29 243 264 459 194 35 56 e25 e28 27 e20 230 361 430 35 26 47 e30 e30 170 28 e21 e25 e30 e28 e29 165 439 422 175 37 25 42 e31 e31 130 127 463 422 33 31 29 e20 e25 e28 e29 456 153 20 40 30 202 19 e28 416 50 e20 e26 --e21 e31 e28 150 378 32 17 TOTAL 2,112 648 786 906 888 838 2,866 9,349 16,621 8,303 703 1,031 20.9 28.9 MEAN 26.2 29.2 28.6 92.5 312 536 277 68.1 22.7 34.4 30 31 386 27 31 30 243 463 679 31 79 MAX 183 MIN 21 27 26 199 375 153 14 16 31 14 1,290 1,800 1,760 32,970 4,190 1,390 2,040 AC-FT 1,560 1,660 5,680 18,540 16,470 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 -2004, BY WATER YEAR (WY) MEAN 38.6 36.0 32.3 31.7 32.7 51.8 263 1,064 914 155 38.7 29.2 MAX 91.8 77.8 59 4 74.5 59 5 139 842 2.122 2,231 519 973 80.5 (1983) (1989)(1974) 77.6 (1983)(WY) (1962)(1962)(1983)(1962)(1984)(1983)(1945)(1997)12.9 MIN 16.2 18.4 20.4 23.8 379 26.9 11.014.8 16.3 178 (2002)(WY) (2003)(1959)(1977)(1945)(1945)(1977)(1973)(1987)(2002)(2002)(1944)SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1944 - 2004 ANNUAL TOTAL 59,516 45,051 ANNUAL MEAN 163 123 226 HIGHEST ANNUAL MEAN 423 1984 86.4 LOWEST ANNUAL MEAN 2002 2,000 679 May 24, 1984 HIGHEST DAILY MEAN May 11 3.960 Jun 1 LOWEST DAILY MEAN Sep 26 14 Aug 15 3.9 Sep 16, 2002 16 Sep 4, 1988 May 23, 1984 Sep 26 ANNUAL SEVEN-DAY MINIMUM 16 16 Aug 11 6.2 4,780 May MAXIMUM PEAK FLOW 786 May 23, 1984

5.55

89,360

381

30

20

May

a8.78

163,700

800

40

21

MAXIMUM PEAK STAGE

10 PERCENT EXCEEDS

50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

ANNUAL RUNOFF (AC-FT)

118,000

432

31

20

a Maximum gage height, 9.95 ft, Apr 25, 1974.

## 09255000 SLATER FORK NEAR SLATER, CO

 $LOCATION.--Lat\ 40^{\circ}58'57", long\ 107^{\circ}22'56", in\ SW^{1}/_{4}NE^{1}/_{4}\ sec. 21, T.12\ N., R.89\ W., Moffat\ County, Hydrologic\ Unit\ 14050003, on\ right\ bank\ 15\ ft\ downstream\ from\ highway\ bridge,\ 1.0\ mi\ upstream\ from\ mouth,\ and\ 1.5\ mi\ south\ of\ Slater.$ 

PERIOD OF RECORD.--May to October, December 1910, March to October 1911, and April to May 1912 (published as Slater Creek), July 1931 to current year. Monthly discharge only for some periods, published in WSP 1313. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09255000

REVISED RECORDS.--WSP 618: 1910-11. WSP 764: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,600 ft above NGVD of 1929, from river-profile map. May 28, 1910 to May 25, 1912, nonrecording gage at site 1.5 mi upstream at different datum. July 9, 1931 to May 6, 1932, nonrecording gage at site 0.2 mi downstream at different datum.

REMARKS.--Records good except for period May 20 to July 20, which is fair and estimated daily discharges, which are poor. Diversions for irrigation from station.

					R YEAR OC		ET PER SECO TO SEPTEM ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	7.3 7.5 8.2 9.2	14 16 18 17 16	16 16 15 13	17 18 18 17	e13 e13 e13 e13 e13	17 13 20 15 20	75 93 101 103 119	162 165 194 220 246	83 82 85 100 97	20 15 11 13 14	5.7 6.5 7.3 7.5 6.9	5.0 4.1 2.6 3.9
6 7 8 9 10	11 12 11 11	15 12 16 14 17	16 16 15 14 11	17 18 17 17 16	e13 e13 e13 e13	20 18 19 22 24	146 157 193 215 180	285 286 274 270 273	95 110 95 86 77	13 11 13 12 12	5.7 5.6 5.3 4.1 3.3	16 10 8.0 6.2 6.4
11 12 13 14 15	11 11 11 11 12	16 15 15 19 17	17 15 15 15 14	16 16 15 e15 e15	e13 e13 e13 e12 e12	22 23 23 24 23	147 136 101 120 134	271 242 233 203 198	63 51 42 38 41	11 8.7 8.6 7.0 5.4	3.0 4.4 5.0 5.0 5.1	6.6 6.0 6.3 9.4 8.0
16 17 18 19 20	12 11 11 12 12	15 16 12 15 16	12 14 15 13	e15 e15 e15 e15 e15	e12 e12 e12 e12 e12	20 20 22 27 40	131 167 168 129 116	188 174 177 200 206	38 40 63 70 60	5.5 6.5 7.3 9.2 9.7	5.4 5.0 2.7 8.1	5.9 3.8 3.2 4.2 14
21 22 23 24 25	12 12 13 12 12	15 11 10 14 16	13 13 12 12 13	e15 e14 e14 e14 e14	e12 e12 e12 e12 e11	46 54 70 83 103	113 105 93 95 89	206 177 140 128 123	77 93 59 41 32	7.4 7.9 9.3 8.6 6.9	12 10 8.7 9.0 7.9	24 25 19 18 19
26 27 28 29 30 31	11 13 13 13 13 14	15 14 13 15 17	14 14 15 16 16	e14 e14 e14 e14 e14 e13	11 9.9 8.0 12	102 102 74 57 58 62	100 132 183 186 188	127 120 129 143 118 92	24 22 29 22 21	6.0 6.5 6.8 6.7 6.2 6.1	7.6 7.8 8.1 7.6 6.5 5.4	18 16 14 13 13
TOTAL MEAN MAX MIN AC-FT	350.2 11.3 14 7.3 695	451 15.0 19 10 895	443 14.3 17 11 879	478 15.4 18 13 948	352.9 12.2 13 8.0 700	1,243 40.1 103 13 2,470	4,015 134 215 75 7,960	5,970 193 286 92 11,840	1,836 61.2 110 21 3,640	291.3 9.40 20 5.4 578	204.2 6.59 12 2.7 405	319.6 10.7 25 2.6 634
				OR WATER Y				, ,				
MEAN MAX (WY) MIN (WY)	19.9 62.4 (1986) 7.29 (1934)	19.2 49.2 (1985) 7.73 (1934)	17.4 44.1 (1985) 7.30 (1932)	17.2 36.9 (1985) 4.42 (1992)	18.6 46.5 (1986) 9.83 (1981)	29.8 144 (1998) 12.6 (1965)	120 323 (1985) 25.2 (1933)	377 801 (1984) 45.7 (1934)	245 660 (1995) 16.0 (2002)	36.6 189 (1983) 1.27 (1977)	9.71 38.4 (1945) 1.39 (1994)	11.5 55.0 (1984) 3.20 (1960)
SUMMAI	RY STATIST	TICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 193	2 - 2004
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE 50 PERCE	. MEAN 「ANNUAL N 「ANNUAL N 「DAILY ME 「DAILY ME	MEAN AN AN Y MINIMU! OW CAGE AC-FT) DS DS	M	45,000 186	2.2 9 Jun 1.8 Aug 2.0 Aug	11	28 31 31,63 11	43.6  86 May 2.6 Sep 4.3 Aug 32 May 5.71 May	3 3 9 7 7	1,. b2,, 55,	a0.00 Au 0.00 Au 250 Ma c11.78 Ma	1984 1934 19 16, 1984 19 2, 1934 19 2, 1934 19 16, 1984

Estimated.

a Also occurred several days during years 1936, 1954, and 1977.
 b From rating curve extended above 1,000 ft<sup>3</sup>/s.
 c From floodmark.

## 09260000 LITTLE SNAKE RIVER NEAR LILY, CO

 $LOCATION.--Lat\ 40^{\circ}32'50",\ long\ 108^{\circ}25'25",\ in\ NW^{1}_{4}NE^{1}_{4}\ sec.\ 20,\ T.7\ N.,\ R.98\ W.,\ Moffat\ County,\ Hydrologic\ Unit\ 14050003,\ on\ left\ bank\ 170\ ft\ downstream\ from\ highway\ bridge,\ 6.0\ mi\ north\ of\ Lily,\ and\ 10\ mi\ upstream\ from\ mouth.$ 

DRAINAGE AREA.--3,730 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--June to August 1904 (published as "near Maybell"), October 1921 to current year. Monthly discharge only for some periods, published in WSP 1313. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09260000

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,685 ft above NGVD of 1929, from river-profile map. June 9 to Aug. 14, 1904, nonrecording gage, and May 5, 1922 to Nov. 30, 1935, water-stage recorder, at site 300 ft upstream at different datums.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 21,000 acres upstream from station.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	0.37	30	e46	e54	e75	e100	417	760	756	261	40	29	
2	0.36	45	e49	e56	e73	e120	406	719	642	285	31	18	
3	22	71	e52	e58	e73	e140	461	598	574	365	29	11	
4	10	78	e46	e61	e75	e180	552	561	508	239	33	121	
5	4.3	67	e38	e62	e75	250	638	621	496	197	16	63	
6	2.9	77	e34	e58	e76	259	666	707	488	173	7.9	286	
7	14	82	e33	e59	e76	258	759	912	497	144	7.4	165	
8	9.2	79	e28	e60	e77	276	856	1,160	521	122	4.6	89	
9	6.8	79	e43	e64	e77	270	934	1,190	560	104	6.2	48	
10	9.8	81	e49	e68	e76	365	1,050	1,150	529	79	3.4	31	
11	30	64	e59	e70	e75	616	1,040	1,150	531	67	1.4	28	
12	35	73	e56	e70	e76	473	837	1,180	506	64	2.2	39	
13	19	82	e48	e72	e75	433	657	1,320	462	55	1.9	76	
14	9.2	99	e57	e72	e74	400	602	1,200	413	53	1.3	37	
15	7.5	91	e66	e76	e75	391	520	1,090	366	48	1.1	16	
16	7.1	88	e72	e76	e76	347	542	921	311	44	0.88	11	
17	7.5	94	e63	e75	e76	323	605	856	286	39	0.48	8.2	
18	9.4	98	e56	e75	e76	294	627	794	282	27	2.4	4.8	
19	10	91	e50	e73	e76	268	759	737	294	78	57	18	
20	11	87	e56	e75	e77	268	815	763	438	57	20	123	
21	14     86     e55     e76     e77       19     65     e57     e75     e77       22     e45     e62     e76     e77       23     e25     e61     e76     e78       20     e23     e59     e77     e78       20     e23     e60     e77     e78					290	683	940	486	45	93	74	
22						355	655	1,030	418	53	33	154	
23						386	691	1,100	608	148	7.4	112	
24						395	653	1,100	569	502	21	149	
25						456	555	e1,010	397	344	36	136	
26 27 28 29 30 31	20 22 22 23 22 26	e23 e28 e39 e43 e44	e60 e61 e63 e61 e52 e52	e77 e77 e77 e76 e76 e77	e78 e78 e80 e80 	520 666 677 696 556 456	512 479 457 546 715	e915 e798 791 743 717 784	306 274 254 269 280	161 145 111 77 59 56	17 16 16 74 62 42	109 95 94 111 e100	
TOTAL	458.43	1,977	1,644	2,174	2,212	11,484	19,689	28,317	13,321	4,202	684.56	2,356.0	
MEAN	14.8	65.9	53.0	70.1	76.3	370	656	913	444	136	22.1	78.5	
MAX	35	99	72	77	80	696	1,050	1,320	756	502	93	286	
MIN	0.36	23	28	54	73	100	406	561	254	27	0.48	4.8	
AC-FT	909	3,920	3,260	4,310	4,390	22,780	39,050	56,170	26,420	8,330	1,360	4,670	
MEAN MAX (WY) MIN (WY)	113 385 (1926) 0.00 (1935)	NTHLY MEA 121 363 (1928) 0.00 (1935)	97.7 244 (1928) 25.0 (1931)	91.6 227 (1999) 16.0 (1933)	124 595 (1986) 18.0 (1933)	380 1,260 (1962) 80.5 (1964)	1,058 3,259 (1952) 320 (1961)	2,528 5,967 (1984) 477 (1934)	1,842 4,601 (1983) 36.7 (1934)	294 1,395 (1995) 0.29 (1934)	67.8 534 (1941) 0.00 (1924)	55.0 314 (1965) 0.00 (1934)	
SUMMAF	RY STATIST	TICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 1922	2 - 2004	
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE 50 PERCE	MEAN ANNUAL ANNUAL DAILY ME DAILY ME	MEAN EAN AN AY MINIMUN LOW FAGE AC-FT) DS DS	1	262,300 1,040 78	) Jun ).00 Aug ).07 Sep	11	1,38 175,60 71 7	12 10 May 0.36 Oc 1.3 Aug 10 May 3.39 May	t 2 g 11 y 13	1,2 13,4 16,7 409,0	a0.00 Ju 0.00 Ju 700 Ma b9.85 Ma	1984 1934 1934 1984 1130, 1924 1130, 1924 1918, 1984 1918, 1984	

e Estimated.

a No flow at times some years.
b Maximum gage height, 11.10 ft, Feb 13, 1962, backwater from ice.

#### 09260050 YAMPA RIVER AT DEERLODGE PARK, CO

LOCATION.--Lat 40°27'06", long 108°31'28", in SE\(^1\_4\)SW\(^1\_4\) sec.21, T.6 N., R.99 W., Moffat County, Hydrologic Unit 14050002, in Dinosaur National Monument, on left bank at Deerlodge Park, 1,150 ft upstream from Disappointment Draw, and 5.5 mi downstream from Little Snake River.

DRAINAGE AREA.--7,660 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--August 1975 and January 1978 (discharge measurements only) April 1982 to September 1994, and October 1996 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09260050

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,600 ft above NGVD of 1929, from topographic map. Prior to Oct. 1, 1996, gage located 100 ft upstream at same datum.

REMARKS.—Records good except discharges below 600 ft<sup>3</sup>/s, which are fair, and for estimated daily discharges, which are poor. Natural flow of stream affected by transbasin diversions, numerous storage reservoirs and diversions for irrigation of about 86,800 acres upstream from station.

#### DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES DAY OCT NOV DEC JAN **FEB** MAR APR MAY JUN пп. AUG SEP 3,320 2,900 1,620 2,240 176 196 e325 e310 e330 e350 1 760 3 530 265 157 221 e320 3,320 231 e305 e370 123 169 e335 1.760 3 289 e315 e330 e390 1,970 2,940 2,710 2,130 225 172 e315 106 213 e310 e320 e330 e420 2,250 3,060 2,800 1,670 211 5 219 e350 e320 e325 e550 2,430 1,440 155 e300 3,740 3,430 186 194 e350 e300 e320 e325 729 2,520 4,870 3,870 1,270 170 207 6 220 e350 e310 e310 e320 756 2,910 5,940 4,100 1,170 160 251 254 e325 748 6,730 8 339 e315 e310 3.150 4,360 1.030 153 289 Q 229 334 e320 e320 e320 796 3,440 6,980 4,410 151 334 866 10 204 340 e295 e320 e330 737 3,880 6,840 4,150 762 147 335 171 4,030 128 290 11 339 e320 e320 e310 1,120 6,630 3.910 659 353 e310 1,120 3,470 6,870 3,390 222 12 169 e315 e320 609 107 2,980 13 184 e360e290 e310 e315 1.150 2.890 6,430 558 102 196 2.590 2,770 e270 5 630 518 14 159 e365 e320 e3201 150 84 181 172 2,370 2,700 e325 e325 80 15 e360 e285 1.060 5.050 484 148 16 178 e360 e305 e340 e320 1,040 2,440 4,510 2,720 444 63 140 17 171 e350 e300 e350 e330 1,030 2.490 4,300 2,680 409 56 130 2,720 e330 4,300 62 171 e350 e295 e320 954 2.670 519 135 18 2,980 e295 e320 931 4,500 3,120 129 19 e340 e310 703 103 163 20 158 e335 e290 e320 e310 1,050 3,160 4,950 3,250 87 167 e310 2.1 162 e340 e285 e315 1 260 2.900 5 540 2.840 511 83 208 22 2,690 96 e330 e290 e315 1.540 2.710 5.850 202 183 e315 450 23 1,940 195 244 e295 e310 e315 2,690 5,670 2,940 470 190 415 24 269 2,120 4,990 194 e295 e325 2,560 2.630 e500 191 25 e320 180 e300 e300 e320 2,400 2,320 4,620 2,190 e550 216 632 26 177 e320 e310 e310 e320 2,620 2,240 4,260 1,960 e530 206 588 184 e350 e310 e325 e320 2,870 2,210 3,940 1,810 473 157 554 28 202 e345 e330 2,260 3,760 417 135 596 e320 e320 2,800 1,720 29 193 $e^{340}$ e310 e325 e330 2,720 2.690 3 720 1 660 379 135 642 e330 30 2.280 3,330 4 070 347 172 e330 e300 1,660 161 665 ---173 ---283 31 e330 1.930 171 e310 3,960 9,930 TOTAL 5,761 9,802 9,400 9,315 40,931 81,070 151,500 88,390 24,606 4.502 8,954 321 335 2,946 MEAN 186 327 303 320 1,320 2.702 4 887 794 145 298 350 4,030 4,410 254 365 325 6.980 2,240 2,870 265 665 MAX 270 158 196 305 310 350 2,940 283 56 1,760 MIN 1,660 AC-FT 19,440 19,700 81,190 160,800 300,500 175,300 48,810 8,930 17,760 11,430 18,640 18,480 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2004, BY WATER YEAR (WY) MEAN 578 429 421 541 1,434 539 3,634 8.027 6,609 1.511 461 363 MAX 1,412 1.127 832 742 1,811 3,200 8,211 18,330 16,120 5,890 1,537 1,594 (WY) (1998)(1986)(1985)(1998)(1986)(1986)(1985)(1984)(1984)(1983)(1984)(1997)223 2,442 45.6 1.9651.378 MIN 133 189 236 210 563 34.4 21.6 (1990)(1990)(1990)(1989)(1989)(2002)(2002)(2002)(2002)(2002)(WY) (1992)(2002)FOR 2004 WATER YEAR SUMMARY STATISTICS FOR 2003 CALENDAR YEAR WATER YEARS 1983 - 2004 ANNUAL TOTAL 626,742 444,161 ANNUAL MEAN 1,717 1,214 2,049 HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN 4,286 1984 678 2002 15,700 Jun 3 6,980 May 9 32,300 May 18, 1984 Aug 13 LOWEST DAILY MEAN 56 Aug 17 1.9 Sep 4, 2002 62 ANNUAL SEVEN-DAY MINIMUM 73 76 4.1 Jul 11, 2002 Aug 11 Aug 15 MAXIMUM PEAK FLOW 7,290 May 9 33,200 May 18, 1984 May 18, 1984 MAXIMUM PEAK STAGE 19.13 7.34 May 9 ANNUAL RUNOFF (AC-FT) 1,243,000 881,000 1,484,000 10 PERCENT EXCEEDS 3,490 5,970 6,310 50 PERCENT EXCEEDS 337 335 640

169

205

90 PERCENT EXCEEDS

172

e Estimated.

## 09304115 WHITE RIVER BELOW NORTH ELK CREEK NEAR BUFORD, CO

 $LOCATION.--Lat\ 39^{\circ}57'00", long\ 107^{\circ}41'39", in\ SE^{1}_{4}SE^{1}_{4}sec. 22, T.1\ S., R.92\ W., Rio\ Blanco\ County, Hydrologic\ Unit\ 14050005, on\ left\ bank\ at\ County\ Road\ 8\ bridge, 0.7\ mi\ downstream\ from\ North\ Elk\ Creek, and\ 4.8\ mi\ southwest\ of\ Buford.$ 

DRAINAGE AREA.--529 mi<sup>2</sup>.

 $PERIOD\ OF\ RECORD. -- January\ 2003\ to\ current\ year.\ For\ a\ complete\ listing\ of\ historical\ data\ available\ for\ this\ site,\ see\ http://waterdata.usgs.gov/co/nwis/inventory/\\ ?site\_no=09304115$ 

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,780 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions upstream from station for irrigation.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	312	291	284	265	e216	241	432	749	1,030	618	337	275
2	306	319	274	267	e239	227	454	772	1,030	557	345	278
3	298	320	263	258	e250	248	470	901	1,070	511	348	269
4	287	293	252	250	e243	243	471	1,060	1,140	486	330	308
5	299	291	254	e209	249	236	562	1,240	1,180	485	351	346
6	299	283	271	e201	242	239	553	1,430	1,350	478	351	317
7	289	283	269	280	e203	240	567	1,520	1,440	455	334	293
8	281	284	281	272	257	244	654	1,570	1,500	436	328	287
9	292	277	283	264	264	256	676	1,560	1,450	423	317	280
10	287	299	e248	254	e216	268	634	1,610	1,370	424	307	283
11	289	301	270	250	e253	260	560	1,710	1,180	424	296	283
12	286	285	256	e255	e205	264	550	1,530	1,080	411	302	277
13	285	290	241	e248	e209	270	523	1,330	997	403	297	275
14	282	300	279	e250	e232	269	552	1,160	969	394	292	275
15	281	288	264	247	e254	277	572	1,060	924	398	287	282
16	280	283	e256	271	257	269	611	1,040	904	428	293	281
17	278	291	e237	e261	255	272	688	1,040	892	435	296	269
18	276	283	e285	e252	263	283	710	1,120	934	464	307	277
19	276	269	e279	e240	258	300	625	1,350	847	425	316	294
20	274	283	e302	254	248	330	592	1,540	799	399	315	345
21	272	289	279	236	245	355	578	1,590	759	387	317	408
22	268	301	275	e220	250	379	552	1,510	714	380	334	364
23	267	e259	e248	e237	245	406	527	1,360	667	393	333	343
24	266	e255	e251	239	242	421	511	1,330	622	400	312	351
25	262	260	259	262	248	448	542	1,230	603	377	298	360
26 27 28 29 30 31	259 275 273 272 270 283	271 e285 e238 276 294	283 256 233 224 255 269	e239 e231 e241 e245 e254 e246	242 250 249 245	483 491 429 380 381 391	546 631 756 842 822	1,180 1,240 1,290 1,410 1,230 1,080	589 574 570 568 639	350 352 368 356 346 339	305 329 311 309 301 287	359 354 344 345 365
TOTAL	8,724	8,541	8,180	7,698	7,029	9,800	17,763	39,742	28,391	13,102	9,785	9,387
MEAN	281	285	264	248	242	316	592	1,282	946	423	316	313
MAX	312	320	302	280	264	491	842	1,710	1,500	618	351	408
MIN	259	238	224	201	203	227	432	749	568	339	287	269
AC-FT	17,300	16,940	16,230	15,270	13,940	19,440	35,230	78,830	56,310	25,990	19,410	18,620
							ATER YEAI	, ,	1 404	400	2.42	222
MEAN	281	285	264	248	234	281	536	1,427	1,424	488	343	333
MAX	281	285	264	248	242	316	592	1,573	1,902	554	371	354
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2003)	(2003)	(2003)	(2003)	(2003)
MIN	281	285	264	248	225	247	480	1,282	946	423	316	313
(WY)	(2004)	(2004)	(2004)	(2004)	(2003)	(2003)	(2003)	(2004)	(2004)	(2004)	(2004)	(2004)
SUMMAR	RY STATIST	TICS					FOR 200	)4 WATER Y	EAR	WATER	YEARS 20	003 - 2004
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN							168,14 45			4	159 159 159	2004 2004
HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT)						1,710 May 11 e201 Jan 6 230 Feb 7 1,810 May 11 3.87 May 11 333,500			3,840 Jun 2,2003 149 Feb 7, 2003 185 Feb 4,2003 4,180 Jun 2,2003 5.54 Jun 2,2003 332,800			
10 PERCE 50 PERCE	ENT EXCEE ENT EXCEE ENT EXCEE	DS DS					1,05 29 24	50 98		1,0	050 050 298 245	

e Estimated.

## 09304200 WHITE RIVER ABOVE COAL CREEK NEAR MEEKER, CO

LOCATION.--Lat  $40^{\circ}00^{\circ}18^{\circ}$ , long  $107^{\circ}49^{\circ}29^{\circ}$ , in  $NW^{1}_{4}NW^{1}_{4}$  sec.3, T.1 S., R.93 W., Rio Blanco County, Hydrologic Unit 14050005, on left bank 15 ft downstream from county road bridge, 2.3 mi upstream from Coal Creek, and 5.0 mi southeast of Meeker.

DRAINAGE AREA.--648 mi<sup>2</sup>.

 $PERIOD\ OF\ RECORD. -- October\ 1961\ to\ current\ year.\ For\ a\ complete\ listing\ of\ historical\ data\ available\ for\ this\ site,\ see\ http://waterdata.usgs.gov/co/nwis/inventory/\\ ?site\_no=09304200$ 

REVISED RECORDS .-- WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,400 ft above NGVD of 1929, from topographic map. Oct. 1, 1961 to Sept. 30, 1976, at site 76 ft upstream at datum 2.00 ft higher.

REMARKS.—Records good except for estimated daily discharges, which are poor. Diversion upstream from station for irrigation of about 8,000 acres and about 4,000 acres downstream from station.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	228	274	305	299	228	238	432	650	585	310	158	e27	
2	245	308	293	285	252	221	456	664	580	271	161	e26	
3	244	314	282	285	253	245	471	743	624	249	173	e27	
4	237	286	274	266	257	238	467	872	676	247	157	e29	
5	243	277	272	220	253	230	553	1,110	747	292	160	e31	
6	248	275	286	208	245	232	563	1,360	910	329	166	e28	
7	246	283	289	332	213	234	560	1,470	1,030	324	145	e26	
8	241	281	305	310	254	238	646	1,550	1,110	311	140	e18	
9	257	276	294	300	250	251	679	1,510	1,070	303	127	e17	
10	253	298	262	281	227	265	642	1,520	972	305	116	e16	
11	256	319	327	276	263	259	571	1,640	776	294	93	e16	
12	253	301	301	268	207	258	558	1,420	634	302	e74	e15	
13	251	304	268	261	220	267	530	1,150	559	289	e69	e14	
14	250	318	302	263	244	273	554	922	521	260	e64	e13	
15	250	303	290	287	268	284	575	784	456	205	e59	e12	
16	248	298	270	304	268	273	602	750	434	234	e55	e14	
17	245	313	250	264	241	275	657	713	428	301	51	e38	
18	238	308	300	255	251	282	675	769	475	331	45	71	
19	239	287	294	253	251	302	599	1,040	409	285	37	87	
20	241	306	319	280	242	333	558	1,290	371	249	e31	133	
21	22     249     309     303       23     249     273     262       24     245     267     264       25     244     304     297       26     240     317     307			252	234	361	533	1,330	337	234	e25	227	
22				224	241	389	513	1,250	308	221	e28	229	
23				249	238	421	483	1,060	274	239	e28	216	
24				268	235	440	467	1,010	245	247	e27	211	
25				259	241	461	497	855	242	229	e25	231	
26 27 28 29 30 31	240 257 255 243 239 260	317 303 251 298 317	307 279 266 277 307 298	253 237 254 258 258 260	237 243 247 243	489 508 448 396 388 392	481 539 653 741 717	769 820 875 1,010 851 673	240 232 238 230 301	215 195 203 193 173 163	e25 e29 e28 e26 e25 e27	229 227 224 234 245	
TOTAL	7,640	8,877	8,968	8,269	7,046	9,891	16,972	32,430	16,014	8,003	2,374	2,931	
MEAN	246	296	289	267	243	319	566	1,046	534	258	76.6	97.7	
MAX	260	319	327	332	268	508	741	1,640	1,110	331	173	245	
MIN	228	251	250	208	207	221	432	650	230	163	25	12	
AC-FT	15,150	17,610	17,790	16,400	13,980	19,620	33,660	64,320	31,760	15,870	4,710	5,810	
				OR WATER YE		,		` ′	1 (72	550	270	240	
MEAN	349	338	304	291	286	307	516	1,491	1,672	558	279	249	
MAX	616	488	426	405	387	448	1,034	2,785	3,526	1,924	759	586	
(WY)	(1998)	(1987)	(1998)	(1998)	(1986)	(1986)	(1985)	(1985)	(1984)	(1995)	(1984)	(1997)	
MIN	141	229	184	181	208	225	319	397	86.7	22.5	21.5	41.3	
(WY)	(1978)	(1978)	(1977)	(1977)	(1978)	(1977)	(1991)	(1977)	(2002)	(2002)	(2002)	(2002)	
SUMMAF	RY STATIST	ICS		FOR 2003 CA	LENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 196	52 - 2004	
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN			173,163 474 3,730 Jun 2 30 Aug 16			129,415 354 1,640 May 11					1984 1977 un 26, 1983 Jul 19, 1977		
LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS		1	30 Aug 16 42 Aug 16 343,500 1,140 262 127		e12 Sep 15 14 Sep 10 1,760 May 11 4.21 May 11 256,700 714 268 70			6.5 Jul 19, 1977 8.8 Jul 16, 1977 5,740 Jun 26, 1983 7.07 Jun 26, 1983 401,200 1,330 326 210					

e Estimated.

#### 09304500 WHITE RIVER NEAR MEEKER, CO

LOCATION.--Lat  $40^{\circ}02'01''$ , long  $107^{\circ}51'42''$ , in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 30, T.1 N., R.93 W., Rio Blanco County, Hydrologic Unit 14050005, on left bank at downstream abutment of private bridge, 1.0 mi upstream from Curtis Creek and 2.5 mi east of Meeker.

DRAINAGE AREA.--755 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1901 to December 1906, October 1909 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as "at Meeker" 1901-13. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09304500

REVISED RECORDS .-- WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,300 ft above NGVD of 1929, from topographic map. Prior to Oct. 31, 1906, and May 7 to Aug. 13, 1910, nonrecording gage, and Aug. 14, 1910 to Oct. 19, 1913, water-stage recorder, at site 2.5 mi downstream, at different datum. Oct. 20, 1913 to Sept. 30, 1971, water-stage recorder at present site, at datum 3.00 ft higher, prior to Oct. 1, 1933, and at datum 2.00 ft higher, thereafter.

REMARKS.—Records good except for estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 12,000 acres upstream from station, and about 3,000 acres downstream from station.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	289 302 303 296 296	313 347 368 342 327	323 312 295 288 285	312 298 295 284 246	252 273 281 282 273	258 240 266 260 252	442 466 483 482 563	675 676 758 895 1,130	738 726 766 836 902	483 433 394 383 413	240 251 262 237 248	141 135 133 155 180	
6 7 8 9 10	302 303 296 311 309	325 324 323 318 337	300 299 318 297 269	226 e231 e242 e245 e257	263 243 292 274 241	256 258 267 287 309	589 571 667 718 686	1,390 1,520 1,600 1,560 1,580	1,080 1,220 1,310 1,280 1,190	423 409 399 376 375	261 248 236 222 204	157 148 134 127 123	
11 12 13 14 15	307 308 303 303 303	353 333 322 339 328	356 334 276 316 305	e266 276 266 268 296	291 242 255 264 292	300 296 299 293 298	605 590 557 569 593	1,690 1,490 1,230 995 846	974 826 739 672 611	373 356 347 338 293	188 181 183 175 167	126 123 119 121 121	
16 17 18 19 20	303 299 292 293 296	322 326 321 302 320	275 259 e286 e270 e302	330 288 275 277 313	284 263 274 269 264	291 288 295 308 339	619 678 707 632 582	787 745 796 1,090 1,360	594 596 662 602 549	340 386 407 370 326	159 141 143 136 130	125 146 182 209 265	
21 22 23 24 25	2     299     316     319     2       3     299     287     277     2       4     298     283     278     2       5     295     336     315     2       6     289     332     323     2				259 264 260 256 263	359 386 413 440 452	555 528 489 464 497	1,440 1,360 1,160 1,120 995	525 490 439 410 392	315 300 314 324 311	134 144 150 142 140	353 352 325 311 337	
26 27 28 29 30 31	289 301 302 292 292 303	332 333 292 338 330	323 304 281 274 301 301	274 265 278 279 279 284	260 266 269 264	495 522 467 410 407 406	482 538 664 766 747	903 937 1,010 1,180 1,060 834	385 385 397 395 478	295 282 288 278 257 242	139 151 140 142 145 145	335 333 328 341 347	
TOTAL MEAN MAX MIN AC-FT	9,280 299 311 289 18,410	9,758 325 368 283 19,350	9,286 300 356 259 18,420	8,529 275 330 226 16,920	7,733 267 292 241 15,340	10,417 336 522 240 20,660	17,529 584 766 442 34,770	34,812 1,123 1,690 675 69,050	21,169 706 1,310 385 41,990	10,830 349 483 242 21,480	5,584 180 262 130 11,080	6,332 211 353 119 12,560	
				OR WATER YE		,		` ′	100		202	271	
MEAN MAX (WY) MIN (WY)	391 687 (1998) 215 (1978)	369 648 (1929) 255 (1978)	332 472 (1998) 233 (1978)	313 441 (1998) 225 (1981)	309 420 (1930) 232 (1935)	343 522 (1986) 261 (1935)	551 1,094 (1962) 313 (1944)	1,553 2,829 (1985) 499 (1977)	1,862 4,091 (1921) 230 (2002)	674 2,524 (1957) 116 (1977)	383 866 (1984) 132 (2002)	354 735 (1997) 152 (2002)	
SUMMAR	RY STATIST	ICS		FOR 2003 CA	LENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 191	10 - 2004	
LOWEST		IEAN		188,085 515 3,820	Jun	2	151,25 41 1,69	13	- 11	1,0	520 944 274 320 M	1984 1977 ay 25, 1984	
LOWEST ANNUAL MAXIMU MAXIMU	DAILY MEA SEVEN-DA M PEAK FL M PEAK ST	AN Y MINIMUM OW AGE	1	152 169	Aug Aug	21	11 12 1,78	19 Sep 23 Sep 80 May 4.29 May	13 10 11	6,9	78 J 86 J 950 M a6.12 M	ful 16, 1977 ful 13, 1977 ay 25, 1984 ay 25, 1984	
MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				373,100 1,130 299 210			300,00 77 30 18	72 04		13	200 450 370 267		

e Estimated.

a Maximum gage height, 7.60 ft, Jun 16, 1921, present datum.

#### 09304800 WHITE RIVER BELOW MEEKER, CO

LOCATION.--Lat 40°00'48", long 108°05'33", in SW1/4NE1/4 sec.31, T.1 N., R.95 W., Rio Blanco County, Hydrologic Unit 14050005, on left bank 30 ft downstream from county bridge, 4.5 mi downstream from Strawberry Creek, and 10 mi west of Meeker.

DRAINAGE AREA.--1.024 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1961 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09304800

REVISED RECORDS.--WDR CO-79-3: Drainage area. WDR CO-86-2: 1985.

GAGE.—Water-stage recorder with satellite telemetry. Elevation of gage is 5,928 ft above NGVD of 1929, from topographic map. Prior to July 22, 2002, at datum 2.00 ft higher.

REMARKS.—Records good except for Mar. 26 to Apr. 5, which is fair, and estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 22,000 acres upstream and a few small hay meadows downstream from station.

#### DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES OCT NOV DEC JUN ш. SEP DAY JAN **FEB** MAR APR MAY AUG e329 e295 e300 e304 e301 525 e319 e309 1.040 e299 1.060 1,210 e295 e288 1.270 e253 e274 1.610 1.340 e261 e303 1.650 1,420 1,560 e312 e301 1,400 e337 e291 e285 1,580 1,320 e363 e287 e313 1,150 e301 e344 e270 1.620 e309 e315 e282 1 390 e325 e311 e288 e331 e306 e314 e326 e314 e308 e274 e289 e300 e304 1.130 e323 1.360 72.5 e331 1,460 e287 1,420 e320 e307 e278 1,260 e306 1.190 e304 e331 e354 e329 e309 1,080 e295 e352 e312 e333 e327 e299 e293 502 519 1,070 e345 e315 e295 1,240 e297 1,240 e321 e302 TOTAL 11,123 11,347 9,875 9,352 8,497 11,843 18,789 36,517 25,157 12,173 6,621 9,943 MEAN 1,178 MAX 1,710 1,420 MIN 22,510 AC-FT 22,060 19,590 18 550 23 490 37,270 72.430 49 900 13,130 19 720 16.850 24,150 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 -2004, BY WATER YEAR (WY) MEAN 1 563 1.821 3,904 2,155 MAX 1,141 2,979 (1985)(1983)(1995)(WY) (1985)(1985)(1985)(1986)(1986)(1986)(1985)(1984)(1997)MIN 26Ó 28Ź 28Ś (WY) (1978)(1978)(1964)(1976)(1977)(1981)(1977)(1977)(2002)(2002)(1990)(2002)SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1962 - 2004 ANNUAL TOTAL 205,573 171,237 ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN 1.069 HIGHEST DAILY MEAN 4,240 1,710 May 11 6,060 Jun 26, 1983 Jun LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM Feb Aug 17 Jul 14, 2002 Jul 12, 2002 Aug 15 Aug 1,810 MAXIMUM PEAK FLOW 6,590 Jun 26, 1983 May MAXIMUM PEAK STAGE a4.97 Jun 26, 1983 May ANNUAL RUNOFF (AC-FT) 407,800 339,600 471,300

1,450

10 PERCENT EXCEEDS

50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

1,140

e Estimated.

a  $\,$  At datum then in use. Maximum gage height, 6.08 ft, Jun 2, 2003, at present datum.

#### 09306200 PICEANCE CREEK BELOW RYAN GULCH NEAR RIO BLANCO, CO

LOCATION.--Lat 39°55'16", long 108°17'49", in SE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub>, sec.32, T.1 S., R.97 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank at downstream side of bridge, 40 ft downstream from Ryan Gulch, and 23 mi northwest of Rio Blanco.

DRAINAGE AREA, -- 506 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1964 to September 1998, August 1999 to current year. For a complete listing of historical data available for this site, see http:// waterdata.usgs.gov/co/nwis/inventory/?site\_no=09306200

REVISED RECORDS.--WDR CO-79-3: 1977 (M).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,070 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges which are poor. Diversions for irrigation upstream from station.

#### DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES DAY OCT NOV DEC JUN JUL AUG SEP JAN **FEB** MAR APR MAY 22 3.0 7.2 8.2 7.2 5.7 44 42 e5 3 e6 5 e11 40 20 45 40 74 3.6 3.2 2 38 e54 e6.6 e12 32 38 e5.5 e6.2 19 3.2 7.13 3.6 6.8 e9.4 8.8 4.6 e4.1 e6.9 e5.7 19 4.2 e9.6 e4.0 4.8 5 3.9 5.9 e5.5 e6.3 e9.8 19 e4.5 0.95 7.8 8.0 5.0 5.6 2.9 5.5 4.2 6 e5.3 e9.3 18 e3.7 7.7 8.0 4.7 e6.8 1.0 2.9 3.5 e5.9 19 0.95 8.0 3.8 e7.1 e10 8 2.5 3.1 e5.2 e7.5 21 3.2 0.52 e4.4 6.7 3.9 2.7 e11 e8.4 Q 2.5 32 e6.2 e8.0 22 5.3 0.56 33 6.5 4.6 3.0 21 2.4 3.4 6.5 e4.5 10 e8.1 e9.1 5.4 1.2 4.6 5.8 3.1 11 2.4 3.3 e5.3 19 4.8 7.0 3.9 20 e7.8 e10 3.0 3.9 e5.8 e7.5 e9.8 19 5.2 5.2 4.0 7.3 13 6.6 3.2 3.3 2.8 2.7 e7.9 e7.5 5.8 7.5 5.2 4.2 3.5 2.7 13 e6.5 e7.5 18 4.4 6.0 6.3 e7.9 4.9 3.0 e6.0 17 14 4.6 15 3.8 2.7 e7.9 3.3 10 5.4 3.5 3.8 e7.6 16 3.6 e4.8 27 13 39 16 47 e5.3 e8 3 e9.1 16 4.4 4.0 6.4 39 3.0 17 4 1 e7.2 e8.4 e11 15 2.7 12 5.2 6.8 43 3.7 2.3 e6.9 5.8 4.4 3.6 18 5.0 2.6 e8.6 11 20 e14 15 e6.5 e15 2.7 19 4.5 e8.8 14 3.8 5.3 4.2 20 3.3 2.7 14 2.8 4.4 4.9 4.3 5.1 e6.8 e9.0 e14 8.8 21 2.8 e9.1 e18 12 3.2 2.9 4.6 4.9 5.4 3.6 e6.9 7.1 3.1 3.6 e3.9 e6.9 e9.5 21 12 7.6 3 9 5.8 4.4 4.6 23 24 3.0 4.9 3.4 e5.5 e6.5 e9.4 7.9 6.1 4.0 5.1 4.4 4.3 24 3.7 e5.6 e6.8 e9.7 24 4.5 2.9 3.9 5.7 4.3 5.8 25 2.9 e6.3 e7.0 e9.8 24 6.1 3.1 5.4 4.8 4.2 6.0 4.2 5.5 4.7 26 2.3 e5.3 e6.8 e9.5 28 4.6 3.0 4.8 6.8 4.1 e9.9 27 2.7 e5.3 32 3.2 e7.1 6.0 6.0 9.1 4.4 28 3.1 e5.4 e7.0 e10 30 6.6 3.2 7.0 5.6 8.1 4.3 6.2 e5.4 e10 3.1 3.1 25 3.9 4.2 7.7 8.2 29 e5.2 6.9 8.3 7.2 4.7 4.8 30 e5.0 7.8 8.0 e6.0 e11 ---10 4.6 6.3 31 4.0 4.4 8.3 4.4 7.4 e6.5 e11 193.18 TOTAL 431.5 197.6 105.2 125 6 188.5 260.6 4418 109.7 169.6 155.6 150.1 3.39 4.19 6.08 3.66 5.4 5.02 MEAN 8.41 14.9 14.3 6.23 5.65 6.37 5.00 5.0 32 9.1 6.8 7.2 8.8 20 MAX 11 22 13 20 2.3 2.3 0.52 2.7 MIN 6.2 7.5 3.8 2.7 3.3 209 249 374 517 856 876 392 309 298 AC-FT 218 383 336 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2004, BY WATER YEAR (WY) MEAN 20.6 24.7 23.1 20.7 24.0 32.9 44.2 62.1 30.2 22.5 28.2 20.3 MAX 699 58.4 60.9 55.5 61.0 112 228 326 166 98.7 95.6 65.2 (1985)(1983)(WY) (1986)(1986)(1984)(1984)(1986)(1986)(1986)(1984)(1984)(1984)2.75 5.51 MIN 4.19 5.56 12.011.52.94 3.65 3.51 3.95 2.69 3.94 (1967) (WY) (1965)(2004)(2003)(2003)(2003)(1972)(1967)(1967)(1967)(1994)(1981)SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1965 - 2004 ANNUAL TOTAL 2.252.2 2,528,98 ANNUAL MEAN 6.17 6.91 29.5 96.5 1985 HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN 2003 6.41 HIGHEST DAILY MEAN 26 2.3 534 5, 1985 7, 1981 Mar 12 32 Feb 27 May

Oct 26

Oct 6

2.6

4,470

10

3.1

0.52

1.1

a5.00

3.0

105

5,020

12

May 8

Jul 18

Jul 18

May

4

0.15

0.96

b7.70

550

19

5.7

21,350

Jun

May

May

Apr 27, 1966

5, 1985 5, 1985

LOWEST DAILY MEAN

MAXIMUM PEAK FLOW

MAXIMUM PEAK STAGE

10 PERCENT EXCEEDS

50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

ANNUAL RUNOFF (AC-FT)

ANNUAL SEVEN-DAY MINIMUM

Maximum gage height, 5.11 ft, Jan 19, backwater from ice.

b Maximum gage height, 7.95 ft, May 5, 1998.

#### 09306222 PICEANCE CREEK AT WHITE RIVER, CO

LOCATION,--Lat  $40^{\circ}04'41''$ , long  $108^{\circ}14'09''$ , in  $SE^{1}_{4}SE^{1}_{4}$  sec. 2, T.1 N., R.97 W., Rio Blanco County, Hydrologic Unit 14050006, on right bank 150 ft downstream of box culvert on county highway, 1.0 mi southwest of White River City, 1.3 mi upstream from mouth, and 17 mi west of Meeker.

DRAINAGE AREA.--652 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1964 to September 1966, October 1970 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09306222

REVISED RECORDS .-- WDR CO-82-3: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 5,730 ft above NGVD of 1929, from topographic map. Oct. 1, 1964 to Sept. 30, 1966, at site 65 ft upstream at different datum. Oct 1, 1970 to Nov. 14, 1972, at site 150 ft upstream at different datum. Nov. 15, 1972 to July 12, 1974, at site 50 ft upstream at different datum. July 13, 1974 to Nov. 17, 1994 at site 0.9 mi downstream at different datum. Nov. 18, 1994 to Oct. 8, 2002, at site 150 ft upstream at same datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions for irrigation of about 5,500 acres upstream from station.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES  DAY OCT NOV DEC IAN EER MAR ARR MAY HIN HILL ALIC SER												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	4.3 4.6 4.5 5.0 5.4	e5.0 e4.9 e4.7 e5.3 e6.0	e5.4 e5.6 e5.5 e5.8 e5.6	e6.6 e6.8 e6.7 e7.1 e7.3	e11 e12 e14 e14 e14	e22 e21 e20 e23 e24	3.1 3.0 2.8 3.0 2.9	4.6 4.3 4.7 3.6 3.0	4.0 3.8 4.5 4.6 5.3	3.5 2.3 2.6 2.5 2.4	6.7 5.9 6.1 6.0 6.6	3.9 3.5 2.9 3.7 4.6	
6 7 8 9 10	5.4 5.2 5.1 4.5 4.3	e9.1 e9.3 e9.7 e7.2 e8.9	e5.4 e6.0 e5.2 e6.8 e4.5	e7.1 e7.6 e7.8 e8.4 e8.1	e11 e13 e11 e12 e11	e24 e25 e24 e23 e23	3.2 3.3 4.3 7.1 5.1	2.6 2.7 3.0 2.3 2.0	5.5 5.1 5.0 4.9 4.6	2.1 2.5 2.2 2.3 2.7	7.5 6.9 5.6 5.3 5.1	4.6 4.3 4.2 4.1 4.2	
11 12 13 14 15	e4.4 e4.8 e4.5 e4.6 e4.8	e5.7 e6.5 e3.9 e4.4 e2.5	e5.4 e5.9 e6.7 e6.1 e4.9	e7.8 e7.7 e8.4 e8.8 e8.7	e11 e10 e11 e10 e11	e18 16 15 14 13	4.9 4.7 4.5 4.2 4.2	2.3 3.0 3.6 3.4 3.2	5.4 4.6 3.5 3.2 2.9	2.8 2.7 2.5 2.5 2.3	6.7 6.5 5.4 4.3 3.3	4.2 14 6.0 5.1 4.9	
16 17 18 19 20	e5.2 e4.7 e4.2 e4.9 e5.2	e3.2 e4.9 e2.9 e3.9 e5.6	e5.4 e7.2 e7.3 e7.4 e7.5	e9.0 e9.3 e8.9 e9.4 e9.8	e10 e14 e16 e17 e16	7.1 9.5 7.5 8.7	4.1 4.3 4.4 5.0 4.3	2.7 3.1 2.8 3.1 2.5	2.9 3.6 3.2 2.7 2.5	2.6 3.1 3.5 12 3.9	3.8 4.3 4.5 4.4 4.4	4.8 4.8 4.7 5.4 6.9	
21 22 23 24 25	e6.7 e5.9 e5.1 e5.0 e5.2	e6.1 e3.9 e5.6 e5.8 e6.5	e7.4 e7.4 e7.7 e7.8 e8.2	e10 e10 e10 e10 e11	e16 e18 e16 e18 e20	8.3 7.7 5.1 3.7 3.0	4.8 4.7 5.2 4.9 4.8	2.7 2.5 2.9 2.9 3.0	2.4 2.6 2.0 1.7 1.5	3.7 3.5 3.6 3.6 3.4	4.3 4.3 4.1 4.2 4.2	8.4 9.9 12 10 8.7	
26 27 28 29 30 31	e5.3 e5.1 e4.8 e5.1 e5.2 e5.3	e5.4 e5.6 e5.5 e5.4 e5.2	e6.9 e8.1 e8.0 e5.8 e7.3 e6.6	e9.5 e10 e11 e11 e11 e12	e20 e22 e21 e20	2.8 2.8 2.7 2.8 2.8 2.9	4.2 4.0 3.8 3.8 5.0	3.0 2.8 2.8 3.4 3.6 3.5	1.8 2.0 2.1 1.8 2.2	3.6 4.2 4.5 4.9 5.4 5.2	4.3 4.1 4.0 3.8 3.7 3.8	7.8 9.4 8.5 8.0 10	
TOTAL MEAN MAX MIN AC-FT	154.3 4.98 6.7 4.2 306	168.6 5.62 9.7 2.5 334	200.8 6.48 8.2 4.5 398	276.8 8.93 12 6.6 549	420 14.5 22 10 833	394.4 12.7 25 2.7 782	127.6 4.25 7.1 2.8 253	95.6 3.08 4.7 2.0 190	101.9 3.40 5.5 1.5 202	108.6 3.50 12 2.1 215	154.1 4.97 7.5 3.3 306	193.5 6.45 14 2.9 384	
MEAN MAX	27.3 86.1	NTHLY MEA 32.1 76.9	N DATA FC 28.2 72.0	25.5 64.9	ZEARS 1965 30.0 86.6	- 2004, BY V 44.6 123	VATER YEAI 57.3 284	74.4 369	35.3 247	26.6 125	32.0 109	23.8 75.4	
(WY) MIN (WY)	(1986) 1.60 (1965)	(1986) 5.62 (2004)	(1986) 5.65 (2003)	(1986) 5.75 (2003)	(1986) 13.0 (2003)	(1986) 12.7 (2004)	(1998) 3.54 (1972)	(1998) 2.27 (1972)	(1983) 1.40 (1994)	(1984) 1.56 (1972)	(1984) 1.67 (1990)	(1984) 2.03 (1966)	
SUMMAR	RY STATIST	ICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 196	5 - 2004	
LOWEST HIGHEST LOWEST	MEAN ANNUAL M ANNUAL M DAILY ME DAILY ME	IEAN AN	Л	30	5.05	9	2,39 e2	6.55 25 Mar 1.5 Jur	r 7 n 25 n 23		a0.50 Ju	1985 2003 sy 7, 1998 sl 21, 1966 sl 30, 1971	
MAXIMU ANNUAL 10 PERCE 50 PERCE	M PEAK FL M PEAK ST RUNOFF (A ENT EXCEE ENT EXCEE ENT EXCEE	'AGE AC-FT) DS DS					4,75	2.57 Ju	1 19 1 19			p 7, 1978 p 7, 1978	

e Estimated.

a Also occurred Jul 22, 1966.

b On basis of slope-area measurement of peak flow.

#### 09306242 CORRAL GULCH NEAR RANGELY, CO

LOCATION.--Lat 39°55′13", long 108°28′20", in SE $^1$ /<sub>4</sub>NW $^1$ /<sub>4</sub> sec.35, T.1 S., R.99 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 5 ft downstream from Box Elder Gulch, 3.5 mi upstream from confluence with Stake Springs Draw, and 21 mi southeast of Rangely.

DRAINAGE AREA.--31.6 mi<sup>2</sup>.

PERIOD OF RECORD.--March 1974 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site no=09306242

GAGE.--Water-stage recorder. Concrete V-notch control since July 20, 1974. Elevation of gage is 6,580 ft above NGVD of 1929, from topographic map.

REMARKS .-- Records fair except for estimated daily discharges, which are poor. No diversions upstream from station.

#### DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES NOV SEP DAY OCT DEC JAN **FEB** APR MAY IUN ш AUG MAR e0.20 0.41 0.31 0.36 0.29 0.41 0.33 0.22 0.24 0.43 0.58 0.19 0.41 0.34 0.32 0.21 0.30 0.41 0.30 0.22 0.26 0.42 0.67 0.20 $0.21 \\ 0.21$ 0.21 0.24 3 0.41 0.33 0.26 0.18 0.30 0.41 0.30 0.24 0.42 0.78 0.30 0.31 0.240.30 0.23 0.47 0.420.180.41 0.695 0.44 0.23 0.30 0.20 0.22 0.31 0.41 0.30 0.49 0.21 0.19 0.76 6 0.44 0.30 0.22 0.19 0.32 0.42 0.27 0.20 0.21 0.47 0.78 0.19 $0.21 \\ 0.21$ $0.33 \\ 0.33$ $0.20 \\ 0.19$ $0.22 \\ 0.24$ $0.74 \\ 0.71$ 0.19 0.19 0.440.31 0.18 0.43 0.240.50 8 0.46 0.30 0.24 0.50 0.61 0.18 0.46 0.31 0.210.18 0.33 0.96 0.220.19 0.25 0.50 0.72 0.18 0.33 0.22 0.27 0.54 10 0.42 0.32 0.22 0.18 0.60 0.19 0.70 0.18 0.230.22 0.71 11 0.41 0.30 0.18 0.33 0.45 0.210.270.61 0.18 0.41 0.24 0.33 0.21 0.23 0.30 12 0.30 0.18 0.45 0.62 0.75 0.18 0.24 0.41 0.30 0.18 0.33 0.44 0.22 0.22 0.28 0.63 0.75 0.18 13 0.42 0.24 0.44 0.22 0.21 0.35 0.68 15 0.43 0.30 0.24 0.21 0.37 0.41 0.21 0.21 0.29 0.66 0.67 0.20 16 0.44 0.30 0.24 0.22 0.37 0.41 0.21 0.19 0.32 0.82 0.67 0.21 0.21 0.37 0.21 0.37 0.22 0.45 0.30 0.26 0.41 0.18 0.36 0.65 18 0.46 0.30 0.27 0.21 0.39 0.41 0.22 0.19 0.37 0.36 2.2 0.23 19 0.470.300.280.21 0.41 0.400.210.18 0.380.35 0.36 0.28 0.47 0.30 0.21 0.38 0.39 0.27 20 0.300.410.21 0.210.35 0.3321 0.45 0.30 0.30 0.21 0.41 0.37 0.23 0.19 0.39 0.36 0.33 0.33 22 23 $0.45 \\ 0.37$ 0.28 $0.30 \\ 0.30$ 0.21 0.23 0.41 $0.37 \\ 0.37$ $0.24 \\ 0.22$ 0.20 0.39 0.35 $0.30 \\ 0.27$ $0.27 \\ 0.27$ 0.210.30 0.41 0.380.38 24 0.24 0.21 0.22 0.27 0.30 0.30 0.21 0.40 0.34 0.41 0.33 0.38 25 0.33 0.31 e0.25 0.240.41 0.33 0.210.20 0.41 0.39 0.20 0.31 26 27 0.33 0.25 0.27 0.33 0.33 e0.24 0.41 0.210.19 0.41 0.40 0.21 0.36 0.33 0.33 0.21 0.21 0.33e0.190.410.200.46 0.430.3728 0.33 0.36 0.27 0.41 0.33 0.21 0.21 0.38 0.43 0.20 0.42 e0.17 0.33 0.37 e0.14 0.27 0.41 0.33 0.23 0.24 0.42 0.45 0.19 0.48 0.33 0.37 0.33 0.24 0.44 0.47 0.51 31 0.33 e0.18 0.27 ---0.33 0.240.53 0.18 TOTAL 12.60 9 39 7.55 6.60 10.48 13.02 7.06 6.40 9.69 14.73 17.39 7.70 0.31 0.24 0.21 0.36 0.26 MEAN 0.41 0.42 0.24 0.21 0.32 0.48 0.56 MAX 0.47 0.37 0.36 0.27 0.41 0.96 0.33 0.240.46 0.82 2.2 0.51 0.18 MIN 0.33 0.28 0.14 0.18 0.29 0.33 0.21 0.18 0.21 0.35 0.18 AC-FT 25 19 21 19 15 13 26 14 13 29 34 15 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2004, BY WATER YEAR (WY) MEAN 0.77 0.74 0.80 1.79 1.22 1.02 0.85 1.21 2.47 6.69 4.06 1.47 2.88 1.99 2.07 2.40 2.22 4.99 14.9 41.7 33.4 8.98 5.56 3.39 MAX (WY) (1979)(1984)(1979)(1979)(1979)(1998)(1998)(1984)(1983)(1984)(1984)(1978)MIN 0.300.25 0.240.21 0.30 0.31 0.12 0.150.090.170.26 0.26 (1993)(1977)(1992)(WY) (1991)(1993)(2004)(2004)(2003)(1992)(1992)(2002)(2004)SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1974 - 2004 ANNUAL TOTAL 156.06 122.61 0.34 1.96 ANNUAL MEAN 0.43 HIGHEST ANNUAL MEAN 7.75 1984 LOWEST ANNUAL MEAN 0.27 1992 HIGHEST DAILY MEAN 4.7 Mar 11 2.2 207 Jun 1, 1983 Aug 18 LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM Dec 29 Dec 28 a0.06 0.10 Apr 16 e0.14 Apr 10, 1974 0.18 Apr 10, 1974 0.07 0.10 Apr 16 Aug 18, 1984 MAXIMUM PEAK FLOW 33 Aug 18 b1,780 MAXIMUM PEAK STAGE 3.00 6.12 Aug 18 Aug 18, 1984 1,420 ANNUAL RUNOFF (AC-FT) 310 243 0.47 10 PERCENT EXCEEDS 3.8 0.66 50 PERCENT EXCEEDS 0.30 0.76 0.38

0.19

0.30

90 PERCENT EXCEEDS

0.14

e Estimated.

a Also occurred Apr 11-14, 1974.

b From rating curve extended above 70 ft<sup>3</sup>/s, on basis of slope-area measurements at gage heights, 3.89 ft, 4.08 ft, and 6.12 ft.

## 09306255 YELLOW CREEK NEAR WHITE RIVER, CO

 $LOCATION.--Lat~40°10'07", long~108°24'02", in~NE^{1}_{4}SW^{1}_{/4}sec.4, T.2~N., R.98~W., Rio~Blanco~County, Hydrologic~Unit~14050006, on left bank~160~ft~downstream~from~bridge~on~State~Highway~64, 0.3~mi~upstream~from~mouth, and 10.0~mi~northwest~of~White~River~City.$ 

DRAINAGE AREA.--262 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1972 to September 1982, May 1988 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09306255

GAGE.--Water-stage recorder with satellite telemetry and v-notch concrete control. Elevation of gage is 5,535 ft above NVGD of 1929, from topographic map. REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 300 acres.

# DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

					DAI	LY MEAN V	ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1.3 1.4 1.4 1.4 1.2	1.3 1.7 1.9 1.7 1.7	1.9 2.0 2.1 e2.3 e2.2	e3.9 e3.2 e3.3 e3.7 e2.8	e3.0 e2.4 e2.0 e2.2 e2.5	e2.3 e2.4 e2.5 e2.5 e2.4	1.9 2.0 1.9 2.0 1.9	1.9 1.8 1.8 1.8 1.7	1.2 1.2 1.1 1.1 1.0	0.88 0.77 0.71 0.71 0.78	0.89 0.89 0.99 0.91 0.89	0.82 0.81 0.79 1.0 1.1
6 7 8 9 10	1.3 1.3 1.7 1.6 1.4	1.7 1.7 1.7 1.8 1.7	e2.4 e2.4 e2.5 e2.3 e2.6	e2.4 e2.4 e2.5 e2.6 e2.6	e2.7 e2.8 e3.0 e2.9 e3.1	3.1 3.6 3.6 3.6 3.3	1.9 2.0 2.2 2.9 2.2	1.7 1.6 1.6 1.6 1.6	0.98 0.91 0.80 0.75 0.77	0.75 0.69 0.70 0.65 0.65	0.96 0.91 0.84 0.81 0.80	1.0 0.98 0.97 0.94 0.95
11 12 13 14 15	1.2 1.3 1.3 e2.0 e2.4	1.7 1.7 1.7 1.8 1.8	e2.4 e2.3 e2.2 e2.1 e2.3	e2.5 e2.6 e2.7 e2.5 e2.6	e3.3 e3.0 e3.1 e2.9 e3.1	3.0 3.0 3.0 3.0 3.0	2.0 1.9 1.9 1.9 1.8	1.6 1.9 1.9 1.7 1.6	0.89 0.87 0.79 0.70 0.70	0.67 0.67 0.64 0.65 0.64	0.80 0.78 0.77 0.73 0.73	0.97 0.94 0.96 0.96 0.99
16 17 18 19 20	2.6 2.6 2.6 2.7 2.6	1.8 1.9 1.8 1.8	e2.2 e2.2 e2.4 e2.7 e1.7	e2.4 e2.7 e2.3 e2.0 e1.8	e3.0 e2.8 e2.7 e3.1 e2.9	2.9 2.8 2.7 2.5 2.4	1.8 1.8 1.9 2.0 1.9	1.6 1.5 1.4 1.4 1.4	0.71 1.7 1.2 1.1 0.83	2.9 6.2 10 1.3 1.1	0.76 0.78 0.89 1.0 0.94	1.0 1.00 0.96 1.2 1.3
21 22 23 24 25	2.8 2.8 2.9 3.0 e1.8	1.8 1.6 1.3 1.6 2.0	e2.4 e2.8 e2.4 e2.5 e3.0	e1.7 e1.9 e2.1 e2.3 e2.5	e2.5 e2.2 e2.1 e1.9 e1.6	2.3 2.2 2.2 2.3 2.2	2.1 2.1 2.0 1.9 1.9	1.4 1.4 1.4 1.4 1.4	0.78 0.81 0.73 0.70 0.71	1.1 1.0 0.96 0.96 0.91	0.91 0.93 0.86 0.84 0.81	1.3 1.4 1.3 1.3
26 27 28 29 30 31	e1.7 1.7 1.7 1.7 e1.6 e1.5	2.2 1.9 1.4 1.3 1.7	e3.0 e3.3 e3.6 e3.0 e3.4 e3.1	e2.6 e2.6 e2.7 e2.5 e2.6 e2.8	e1.7 e2.0 e2.1 e2.4	2.0 2.2 2.1 2.0 2.0 1.9	1.8 1.8 1.7 1.7 1.9	1.4 1.3 1.3 1.4 1.5	0.73 0.75 0.79 0.80 0.84	1.1 1.1 1.0 0.99 0.96 0.92	0.82 0.93 0.89 0.84 0.83 0.82	1.2 1.2 1.3 1.4 1.5
TOTAL MEAN MAX MIN AC-FT	58.5 1.89 3.0 1.2 116	51.5 1.72 2.2 1.3 102	77.7 2.51 3.6 1.7 154	79.8 2.57 3.9 1.7 158	75.0 2.59 3.3 1.6 149	81.0 2.61 3.6 1.9 161	58.7 1.96 2.9 1.7 116	48.3 1.56 1.9 1.3 96	26.94 0.90 1.7 0.70 53	43.06 1.39 10 0.64 85	26.55 0.86 1.0 0.73 53	32.74 1.09 1.5 0.79
STATIST	ICS OF MON	NTHLY MEA	N DATA FO	OR WATER Y	EARS 1973	- 2004, BY W	ATER YEA	R (WY)				
MEAN MAX (WY) MIN (WY)	2.72 10.2 (1999) 0.50 (1979)	3.02 12.1 (1999) 0.78 (1978)	2.71 9.77 (1999) 0.15 (1979)	2.61 9.05 (1999) 0.01 (1979)	4.29 12.7 (1980) 0.22 (1979)	4.62 18.1 (1997) 1.64 (1982)	3.27 8.88 (1999) 1.37 (1978)	4.23 24.1 (1985) 1.03 (1978)	3.44 19.9 (1985) 0.68 (1977)	3.07 18.5 (1985) 0.34 (1976)	2.45 9.34 (1998) 0.30 (1978)	3.21 17.1 (1978) 0.80 (1976)
SUMMAF	RY STATIST	TICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	)4 WATER	YEAR	WATER	YEARS 1	973 - 2004
LOWEST		/IEAN			7.17 2.05 5 Feb	15		59.79 1.80 10 J	ul 18		3.06 8.93 1.28 500	1999 1977 Sep 7, 1978
ANNUAL MAXIMU MAXIMU	DAILY ME. SEVEN-DA M PEAK FL M PEAK ST RUNOFF (A	AY MINIMUN OW TAGE	Л		0.61 Aug 0.66 Aug		2:	0.65 J 59 J 8.16 J	ul 13 ul 9 ul 18 ul 18	b6,;		Sep 11, 1978 Dec 15, 1978 Sep 7, 1978 Sep 7, 1978
10 PERCE 50 PERCE	ENT EXCEE ENT EXCEE ENT EXCEE	DS DS			2.9 1.8 ).88		1,0	2.9 1.7 0.80			5.6 2.3 0.94	

e Estimated.

Also occurred Sep 12-16, 1978, and Dec 15, 1978 to Jan 14, 1979.

a Also occurred Sep 12-16, 1978, and Dec 15, 1978 to Jan 14, 1979.
 b On basis of contracted-opening, and flow-over-road measurement of peak flow.

#### 09306290 WHITE RIVER BELOW BOISE CREEK NEAR RANGELY, CO

LOCATION.--Lat 40°10'47", long 108°33'53", in SW<sup>1</sup>/<sub>4</sub>SEE<sup>1</sup>/<sub>4</sub> sec.36, T.3 N., R.100 W., Rio Blanco County, Hydrologic Unit 14050007, on left bank at bridge on County Road 73, 0.5 mi downstream from Boise Creek, and 16.4 mi east of Rangely.

DRAINAGE AREA .-- 2,530 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1982 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site no=09306290

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,395 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 31,500 acres.

#### DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES NOV JUL SEP DAY OCT DEC JAN FEB MAR APR MAY IUN AUG 392 283 353 e358 e352 e356 661 591 241 177 2 290 363 e338 e333 e318 e327 433 628 790 590 238 174 e297 442 e471 675 747 3 312 431 e327 e324 e353 793 500 251 166 870 235 324 e287 e339 e320 442 e355 473 171 5 314 394 e329 842 207 e288 e334 950 474 e318 e566 247 6 310 386 e329 e315 e316 e346 606 1.170 1.080 499 242 261 313 312 378 373 e273 e281 1,430 1,490 1,220 1,320 254 225 237 225 e340 e294 e349 587 478 8 e385 e318 e362 646 460 e322 307 367 e358 e311 e391 797 1,490 1 350 386 210 210 10 316 365 e357 e315 e315 e440 757 1,440 1.280 379 196 203 700 205 11 308 391 e383 e307 e331 e428 1.500 372 186 1 180 389 e412 1,560 367 210 12 313 e364 e321 e301 635 999 174 312 371 e329 e335 e307 400 612 1,350 888 348 168 192 13 e332 311 e345 371 1,100 308 187 15 307 374 e357 e327 e334 346 602 912 726 276 155 183 16 314 363 e346 e334 e328 341 618 800 684 257 145 183 e338 386 17 311 357 e294 e319 334 672 761 751 142 184 303 361 e317 e312 e321 309 709 732 864 433 130 193 18 e326 19 306 358 e302 e324 338 703 881 823 403 181 229 311 330 345 353 723 20 e311 e343 e323 629 1.140 356 138 21 322 359 e343 e351 e309 372 600 e1,360 675 338 130 379 22 23 338 372 339 e359 e307 e295 395 583 573 e1,460 654 155 462 316 339 418 291 156 e327 e298 e290e1.420 586 404 24 330 e324 e326 e311 436 527 296 422 e351 1.050 514 176 25 323 e374 e349 e329 e351 435 533 1.020 501 292 168 413 26 27 278 323 e352 e361 e315 e375 465 544 936 488 162 414 322 e392 549 497 279 400 e372 e353 e319 512 898 183 28 341 e322 e347 e313 e404 534 551 972 515 283 192 383 330 e365 e335 e315 e367 417 652 1,080 483 288 175 401 1,250 677 413 321 e359 e319 395 520 31 329 e349 e323 ---384 1.020 251 177 TOTAL 9,795 11,066 10,500 9,963 9,457 12,008 17,944 33,775 24,341 11 519 5,734 8,258 326 1,090 275 MEAN 316 369 339 321 387 598 811 185 MAX 341 442 385 352 404 534 797 1,560 1,350 591 254 462 MIN 283 322 287 273 290 309 392 628 483 251 130 166 19.430 21.950 19.760 18,760 11,370 AC-FT 20.830 23.820 35,590 66,990 48.280 22.850 16,380 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 -2004, BY WATER YEAR (WY) MEAN 750 1,912 827 438 520 498 434 399 396 509 1.736 469 858 710 663 572 531 752 1,512 3,434 4,572 2,175 1,117 944 MAX (1985)(1986)(1986)(1986)(1986)(1986)(1985)(1984)(1984)(1995)(1997)(WY) (1984)MIN 316 322 295 260 268 324 370 449 209 120 154 206 (1991)(2003)(1991)(1995)(1995)(2002)(2002)(2002)(WY) (2004)(2003)(2002)(2002)SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1983 - 2004 ANNUAL TOTAL 164,360 198,030 ANNUAL MEAN 543 449 HIGHEST ANNUAL MEAN 1,345 1984 LOWEST ANNUAL MEAN 333 2002 HIGHEST DAILY MEAN a4,220 Jun 2 1,560 May 12 6,170 May 26, 1984 LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM Aug 18 Aug 15 53 72 153 Aug 8 130 Jul 17, 2002 Jul 14, 2002 160 146 Aug MAXIMUM PEAK FLOW 1,650 6,440 Jun 7, 1984 May 11 MAXIMUM PEAK STAGE 7, 1984 4.62 May 11 8.45 537.200 ANNUAL RUNOFF (AC-FT) 392,800 326,000 10 PERCENT EXCEEDS 1,260 829 1.540

350

210

488

298

50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

338

236

e Estimated.

a Estimated during period of indefinite stage-discharge relationship, Jun 2-3, 2003.

#### 09342500 SAN JUAN RIVER AT PAGOSA SPRINGS, CO

 $LOCATION.--Lat~37^{\circ}15'58", long~107^{\circ}00'37", in~NE^{1}{}_{4}SW^{1}{}_{4}~sec.13,~T.35~N.,~R.2~W.,~Archuleta~County,~Hydrologic~Unit~14080101,~on~right~bank~at~former~bridge~site~in~Pagosa~Springs,~0.2~mi~upstream~from~McCabe~Creek,~0.6~mi~downstream~from~bridge~on~U.S.~Highway~160,~and~2.0~mi~upstream~from~Mill~Creek.$ 

DRAINAGE AREA.--298 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1910 to December 1914, May 1935 to current year. Monthly discharge only for some periods, published in WSP 1313. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09342500

REVISED RECORDS.--WSP 1313: 1914(M).

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 7,052.04 ft above NGVD of 1929. Jan. 29 to Mar. 6, 1911, nonrecording gage at site 0.5 mi upstream, at different datum. Mar. 7 to Oct. 4, 1911, nonrecording gage at present site, at different datum. Nov. 23, 1911 to Nov. 14, 1914, nonrecording gage at site 300 ft upstream, at different datum.

REMARKS.--Records good except for Oct. 1-6, Sept. 22-30, and estimated daily discharges, which are poor. Diversions for irrigation of large areas upstream from station. EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1885, that of Oct. 5, 1911. Flood of June 29, 1927, reached a stage of 13.5 ft, discharge about 16,000 ft<sup>3</sup>/s, from information by local residents.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	47	47	69	55	e51	57	643	586	1,060	358	76	25	
2	54	103	73	50	51	60	671	593	1,110	292	72	23	
3	81	145	66	45	52	60	647	663	1,320	262	101	22	
4	99	97	63	43	51	64	607	929	1,530	234	81	233	
5	84	82	63	47	e48	65	598	1,150	1,570	203	69	295	
6	71	72	64	55	46	56	560	1,370	1,550	185	72	130	
7	64	71	62	58	e47	65	513	1,660	1,730	172	100	92	
8	62	71	65	58	e49	85	523	1,740	1,690	162	83	78	
9	58	69	58	52	49	123	534	1,740	1,510	148	62	68	
10	57	68	45	e52	48	174	499	1,740	1,360	136	53	57	
11	59	75	49	e53	e48	211	456	1,860	1,100	125	52	55	
12	55	73	e50	e52	e47	259	402	1,650	918	119	47	49	
13	51	93	46	52	45	305	379	1,270	806	116	e37	45	
14	50	100	49	52	49	303	413	1,090	860	114	e33	41	
15	48	91	e49	57	50	316	426	1,020	915	136	e31	38	
16	46	81	44	57	49	325	491	1,230	817	136	e43	37	
17	45	81	45	57	49	329	554	1,320	759	138	e42	36	
18	45	68	e49	52	51	398	551	1,370	689	126	75	33	
19	45	68	e50	55	60	485	515	1,630	652	133	51	1,180	
20	46	77	e51	55	60	602	483	1,760	609	131	55	2,470	
21	49	81	e51	55	60	721	462	1,780	550	122	53	1,240	
22	46	81	e50	49	59	800	433	1,660	482	113	49	844	
23	38	58	50	47	56	808	401	1,380	436	195	46	617	
24	38	50	51	51	60	837	359	1,160	387	217	39	478	
25	39	71	58	57	57	860	344	1,070	369	149	38	396	
26 27 28 29 30 31	38 39 42 41 41	73 54 47 59 65	59 48 39 38 53 55	49 45 50 e50 e50 e50	56 60 59 57	903 824 605 507 512 570	357 446 634 724 677	1,010 1,110 1,250 1,440 1,150 1,040	388 360 332 368 427	127 134 120 117 99 92	34 30 27 25 25 25	354 322 295 376 369	
TOTAL	1,619	2,271	1,662	1,610	1,524	12,289	15,302	40,421	26,654	4,911	1,626	10,298	
MEAN	52.2	75.7	53.6	51.9	52.6	396	510	1,304	888	158	52.5	343	
MAX	99	145	73	58	60	903	724	1,860	1,730	358	101	2,470	
MIN	38	47	38	43	45	56	344	586	332	92	25	22	
AC-FT	3,210	4,500	3,300	3,190	3,020	24,380	30,350	80,180	52,870	9,740	3,230	20,430	
STATIST: MEAN	ICS OF MON 144	NTHLY MEA 93.6	N DATA FO 63.9	R WATER YE 55.1	EARS 1936 61.6	- 2004, BY W 151	ATER YEAR 551	R (WY) 1,273	1,298	382	179	154	
MAX	937	399	160	107	142	442	1,210	2,665	3,066	1,515	740	859	
(WY)	(1942)	(1987)	(1987)	(1986)	(1995)	(1986)	(1985)	(1941)	(1957)	(1941)	(1999)	(1970)	
MIN	23.3	33.6	27.5	26.8	29.2	50.3	141	158	56.6	15.5	13.5	18.8	
(WY)	(1957)	(1956)	(1990)	(1990)	(1964)	(1964)	(1977)	(2002)	(2002)	(2002)	(2002)	(1956)	
SUMMAR	RY STATIST	TICS		FOR 2003 CA	LENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 19	36 - 2004	
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE	MEAN ANNUAL M ANNUAL M DAILY ME DAILY ME SEVEN-DA M PEAK FL M PEAK ST RUNOFF (A ENT EXCEE)	MEAN AN AN Y MINIMUN OW 'AGE AC-FT) DS	1	75,156 206 2,040 30 33 149,100 522	May Jan Jan	2	2 4,30 238,40 1,08	18	p 20 p 3 g 28 p 19 p 19	4,6 25,6 1 266,4	a8.3 A 8.7 A 000 C 017.80 C 400	1941 2002 Iay 13, 1941 ug 28, 2002 ug 28, 2002 Oct 5, 1911 Oct 5, 1911	
	ENT EXCEE ENT EXCEE			66 38				6 .5		1	106 42		

e Estimated.

a Also occurred Sep 3, 2002.

b From floodmarks.

#### 09346400 SAN JUAN RIVER NEAR CARRACAS, CO

LOCATION.--Lat 37°00'49", long 107°18'42", in SE½<sub>4</sub>SW½<sub>4</sub> sec.17, T.32 N., R.4 W., Archuleta County, Hydrologic Unit 14080101, on right bank five feet above the maximum water surface of Navajo Reservoir, 3 mi northwest of Carracas, 7.2 mi upstream from Piedra River.

DRAINAGE AREA.--1,230 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--October 1961 to current year. Statistical summary computed for 1971 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09346400

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 6,090 ft above NGVD of 1929, from river-profile map.

REMARKS.--Records good except for Mar. 11-21 and estimated daily discharges, which are poor. Diversions for irrigation of about 11,000 acres upstream from station. Highwater diversions upstream from station into Rio Grande Basin through Azotea Tunnel (station 08284160) began in March 1971.

EXTREMES OUTSIDE PERIOD OF RECORD.--Major floods occurred Sept. 5 or 6, 1909; Oct. 5, 1911; June 29, 1927.

#### DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES DAY OCT NOV DEC JAN **FEB** APR MAY JUN JUL AUG SEP MAR 479 77 e153 e166 e130 161 880 853 1 180 162 42 80 83 150 e157 e125 e133 929 880 1,150 403 151 40 163 3 941 890 1,290 174 41 156 280 160 e111 e138 169 353 218 321 e137 212 1,060 1,100 1.460 322 93 150 e82 182 e130 5 204 208 147 e73 228 1,080 1,310 1,560 295 152 707 170 172 e132 173 1,520 1,520 182 6 153 e111 923 267 315 145 153 145 e163 218 848 1,700 1,630 242 153 205 e95 8 142 154 142 e182 e106 321 891 1.780 1.670 229 176 161 221 134 157 150 e178 e119 455 927 1.760 1 550 140 137 121 151 550 954 205 10 e152 e120 1,760 1,420 119 125 120 11 129 158 95 e152 e108 612 927 1,810 1,260 195 115 117 e103 172 245 118 121 e152 e148 933 750 1,720 1,450 1,100 972 108 97 12 13 125 699 175 111 116 173 844 e100 100 288 119 886 696 1 230 973 93 93 111 e144 e90 14 163 257 92 15 110 e120 e152 e119 924 688 1.150 1.030 81 105 900 207 718 1 250 978 104 72 16 e111 e180 e122 210 1,410 912 101 188 e182 e115 796 227 107 68 17 e74 782 201 18 181 e92 e165 e126 879 815 1,440 827 95 67 95 977 1,590 129 19 153 e118 e151 e164 768 263 20 87 159 e166 e210 1,120 726 1,670 742 230 109 3,360 e129 21 78 174 e134 e173 e213 1,300 1,730 691 200 115 1,640 686 22 175 83 e130 e165 e210 1.330 648 1.690 627 186 1.210 23 79 172 e127 e106 e204 1,260 1,510 573 174 864 636 106 e179 24 25 74 78 572 532 135 e129 e102 1 290 1 330 510 369 QQ 688 1.310 1.230 465 88 161 e137 e153 209 271 558 80 519 472 26 160 e155 227 1,320 1,150 230 81 472 27 79 153 195 e103 228 1,230 578 1,200 464 237 72 431 28 29 e138 e87 e76 e87 e128 979 1.280 62 56 80 226 743 438 237 376 228 871 175 812 475 408 e141 1,480 80 30 e130 891 1 340 198 51 562 78 e148 e77 773 483 ---77 1,200 45 31 e155 e132 811 181 3,975 4,347 13,407 TOTAL 3.394 5.391 4.390 23,702 23,912 43,413 29.198 7.512 3.527 109 180 150 973 242 MEAN 128 142 765 797 1.400 114 447 228 479 MAX 218 321 195 182 1,330 1,080 1,810 1,670 182 3,360 90 MIN 80 163 AC-FT 6,730 10,690 7,880 8,710 8.620 47,010 47,430 86,110 57,910 14,900 7,000 26,590 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2004, BY WATER YEAR (WY) MEAN 293 238 171 155 189 579 1,023 1,679 1.678 598 323 289 MAX (WY) 932 983 406 296 481 1 369 2.524 3 195 4.039 2.427 1 004 880 (1979)(1985)(1987) (1987)(1995)(1995)(1999)(1987)(1987)(1986)(1973)(1982)MIN 106 104 72.9 71.785.Ó 130 233 269 72.1 22.5 18.8 61.2 (1979)(1990)(1990)(2003)(1990)(2002)(1977)(2002)(2002)(2002)(2002)(1978)FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR SUMMARY STATISTICS WATER YEARS 1971 - 2004 ANNUAL TOTAL 103,623 166,168 ANNUAL MEAN 284 454 a602 HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN b1,191 1985 b112 2002 HIGHEST DAILY MEAN 2,080 3,360 b6,700 Mar 12, 1985 Sep 10 Sep 20 Aug 22 Sep 1, 2002 LOWEST DAILY MEAN 37 40 Sep 2 c0.80Aug 28 ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW 49 Aug 17 48 13 Aug 31, 2002 Sep 20 d8,590 Mar 6, 1995 4,620 MAXIMUM PEAK STAGE 6.20 Sep 20 f8.10 Mar 6, 1995 436,200 ANNUAL RUNOFF (AC-FT) 205,500 329,600 10 PERCENT EXCEEDS 1,260 1,630 50 PERCENT EXCEEDS 145 181 268

90 PERCENT EXCEEDS

69

89

104

e Estimated.

Average discharge for 9 years (water years 1962-70), 632 ft<sup>3</sup>/s; 457,900 acre-ft/yr, prior to completion of Azotea Tunnel.

b Also the highest (or lowest, as is appropriate) for the period of record.

c Also minimum daily discharge for period of record.

d Maximum discharge for period of record, 9,730 ft<sup>3</sup>/s, Sep 6, 1970, gage height, 8.34 ft, from rating curve extended above 6,000 ft<sup>3</sup>/s, on basis of slope-area measurement of peak flow.

f Maximum gage height for statistical period, and period of record, 9.63 ft, Jan 4, 1994, backwater from ice.

#### 09349800 PIEDRA RIVER NEAR ARBOLES, CO

 $LOCATION.--Lat~37^{\circ}05'18", long~107^{\circ}23'50", in~NE^{1}{}_{4}SW^{1}{}_{4}~sec.21,~T.33~N.,~R.5~W.,~Archuleta~County,~Hydrologic~Unit~14080102,~on~left~bank~2.5~mi~upstream~from~Navajo~Reservoir,~3.0~mi~downstream~from~Ignacio~Creek,~and~4.6~mi~northeast~of~Arboles~Post~Office.$ 

DRAINAGE AREA.--629 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1962 to current year. Gage 09350000 (Piedra River At Arboles) operated 1895-99 and 1910-27 at site 7.5 mi downstream at elevation 6,000 ft, published in WSP 1313. Low-flow records probably not equivalent. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09349800

GAGE.--Water-stage recorder with satellite telemetry, and crest-stage gage. Datum of gage is 6,147.52 ft above NGVD of 1929, Colorado State Highway Department benchmark.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 2,800 acres upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD .-- Major floods occurred Sept. 5 or 6, 1909, and Oct. 5, 1911.

## DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

					Dili	ie i ment v	RECES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	45	60	e61	e58	84	886	697	775	307	110	58
2	58	72	63	e55	e58	92	899	681	762	250	106	50
3 4	76 104	123	64 59	e53 e50	e59 e58	97 122	1,000 1,380	731 909	859 948	216 189	106	47 66
5	120	118 83	e59	e55	e56	129	1,360	1.090	948 997	168	110 103	228
6	102	74	e59	e61	e53	107	1,140	1,240	1,020	146	114	139
7	98	68	e59	e64	e55	120	986	1,380	1,110	132	120	102
8	90	68	e58	e65	e56	156	1,010	1,470	1,140	123	125	84
9	82	68	e54	e60	e56	209	989	1,430	1,050	115	104	79
10	77	67	58	e60	e55	270	937	1,390	925	106	97	69
11	69	69	52	e60	e55	323	865	1,410	788	105	95 92	67
12 13	61 57	69 100	e52 e53	e59 e59	e54 e53	376 463	922 779	1,290 1,050	681 597	107 104	92 86	68 64
14	52	105	53	e59	e56	473	746	855	604	94	84	65
15	49	96	e52	e63	e57	476	733	797	632	95	74	62
16	47	83	e51	e64	e57	469	752	864	602	112	74	61
17	46	79	e53	e64	e57	459	789	1,010	553	116	77	60
18	45	75	e56	e60	59	536	817	1,030	504 479	112	77	56
19 20	45 44	62 67	e57 e58	e61 e62	71 75	638 785	768 705	1,160 1,260	479 449	127 119	89 85	238 1,660
21	43	72	e57	e61	77	950	671	1,310	419	116	87	1,220
21	43 41	85	e57	e55	84	1.140	628	1,310	378	110	87 89	755
23	39	65	e57	e55	83	1,200	598	1,060	341	120	90	527
24	39	40	e57	e57	90	1,280	531	914	304	275	82	401
25	42	60	e62	e63	93	1,390	495	851	276	190	74	327
26	42	75	e66	e55	94	1,410	498	812	274	170	71	282
27 28	41 41	61 55	e51 e46	e52 e57	101 108	1,290 1,010	591 737	859 926	279 262	161 157	67 64	257 231
29	43	59	e46	e57	89	843	800	1,060	311	148	60	264
30	43	57	e60	e57		823	778	898	352	130	56	359
31	43		e62	e58		842		795		116	56	
TOTAL	1,839	2,220	1,751	1,822	1,977	18,562	24,830	32,449	18,671	4,538	2,724	7,946
MEAN	59.3	74.0	56.5	58.8	68.2	599	828	1,047	622	146	87.9	
MAX MIN	120 39	123 40	66 46	65 50	108 53	1,410 84	1,400 495	1,470 681	1,140 262	307 94	125 56	1,660 47
AC-FT	3,650	4,400	3,470	3,610	3,920	36,820	49,250	64,360	37,030	9,000	5,400	15,760
STATIST	ICS OF MOI	NTHLY MEA	N DATA FO	R WATER YI	EARS 1963	- 2004 BY W	ATER YEA	R (WY)				
								, ,	005	205	217	211
MEAN MAX	170 618	125 517	88.4 257	73.3 153	90.1 244	322 895	850 2,126	1,261 2,926	995 2,526	325 1,133	217 1,014	211 943
(WY)	(1973)	(1987)	(1987)	(1987)	(1986)	(1995)	(1979)	(1979)	(1979)	(1975)	(1999)	
MIN	51.2	48.4	31.2	21.8	25.7	47.4	126	91.7	24.8	12.7	15.2	
(WY)	(1979)	(1968)	(1990)	(2003)	(2003)	(1964)	(1977)	(2002)	(2002)	(2002)	(2002)	(1978)
SUMMAI	RY STATIST	TICS		FOR 2003 CA	ALENDAR	YEAR	FOR 200	04 WATER Y	'EAR	WATER	YEARS 1	1963 - 2004
ANNUAL				63,533			119,3					
	NNUAL MEAN			174			33	26			395	1070
	HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN									,	822 53.5	1979 2002
	DAILY ME			1,310	May	29	1,60	60 Se	p 20	5,	360	Sep 6, 1970
	LOWEST DAILY MEAN			e15	Feb			39 Oc	t 23	ŕ	a3.9	Aug 26, 2002
	ANNUAL SEVEN-DAY MINIMUM		M	18	Feb	5	41 Oct 22			4.3 Aug 26, 2002		
	MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE						2,130 Sep 20 3.91 Sep 20			b8,370 Sep 6, 1970 c6.38 Sep 6, 1970		
ANNUAL	ANNUAL RUNOFF (AC-FT)			126,000			3.91 Sep 20 236,700			285,900		
	ENT EXCEE			479			9				160	
	ENT EXCEE ENT EXCEE			62 24				97 53			143 52	
70 I LIKEI	ATT LACEE	20		24							32	

Estimated.

Also occurred Aug 28-29, 2002.
 From rating curve extended above 4,400 ft<sup>3</sup>/s, on basis of slope-area measurement of peak flow.

c Gage height, 6.38 ft, recorded, 7.55 ft, from floodmarks.

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## 09352900 VALLECITO CREEK NEAR BAYFIELD, CO (Hydrologic Benchmark Station)

 $LOCATION.--Lat~37^{\circ}28^{\circ}39", long~107^{\circ}32^{\circ}35", in~NE^{1}{}_{24}NW^{1}{}_{24}sec. 16, T.37~N., R.6~W., La~Plata~County, Hydrologic~Unit~14080101, on~right~bank~60~ft~upstream~from~Fall~Creek, 0.8~mi~downstream~from~Bear~Creek, 6.7~mi~north~of~Vallecito~Dam,~and~18~mi~north~of~Bayfield.$ 

DRAINAGE AREA.--72.5 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1962 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=09352900

REVISED RECORDS.--WDR CO-00-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and concrete control. Datum of gage is 7,906.08 ft above NGVD of 1929.

REMARKS.--Records good except for estimated daily discharges, which are poor. No diversion upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Major floods occurred in October 1911 and June 1927.

					R YEAR OC	, CUBIC FEE TOBER 2003 LY MEAN V	TO SEPTEN	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
		•	2.5	~ ~			4.50	

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	29	35	e25	e21	e21	153	141	320	212	84	31
2 3	53 59	31 37	33 32	e22 e19	e21 e21	e22 e22	153 156	149 186	369 457	197 181	83 87	30 30
4 5	67 65	33 33	32 31	e16 e20	22 e20	e23 e22	154 151	260 347	518 573	166 151	80 83	104 103
6	63	32	31	e24	e18	e21	156	421	648	155	102	89
7	62 59	32 32	30 31	e25 e24	e19 e20	e23 e28	154 142	529 590	706 640	159 149	89 81	80 73
9	56	32	e30	e24	e20	e37	137	563	552	145	74	66
10	54	33 33	e27	e24	e19 e19	48	128	589 542	450	140	69	63
11 12	54 51	32	e24 e24	e24 e23	19	54 63	118 110	543 373	338 297	137 137	64 60	66 59
13 14	48 45	36 38	e22 e24	e22 e24	e19 e17	66 65	105 108	275 221	283 347	141 130	57 55	56 52
15	43	35	e23	25	e17	67	109	222	363	124	53	48
16 17	41 40	34 36	e20 e20	25 24	e17 e17	69 72	120 131	307 393	337 311	146 188	51 52	45 43
18 19	38 37	35 40	e23 e24	24 e25	e20 20	82 96	132 127	455 604	279 287	160 142	51 50	42 535
20	35	40	e24	e23	20	119	121	634	275	140	49	e1,470
21 22	34 32	38 37	e24 e24	e22 e21	20 21	144 160	117 111	555 474	238 210	124 113	47 48	e966 e478
23	31	35	e24	e18	21	166	103	387	201	171	45	253
24 25	30 29	38 42	e24 e25	e22 e22	21 e18	162 176	97 95	355 380	200 192	181 139	42 40	215 182
26	27	34	e24	e21	e19	187	99	417	178	128	38	158
27 28	28 27	30 30	e21 e15	e19 e20	e21 22	175 151	124 163	491 612	168 176	131 114	36 36	141 135
29 30	27 26	34 34	e14 e23	e20 e21	e21	132 127	167 154	569 352	313 242	102 95	34 33	202 211
31	25		e25	e20		134		300		89	32	
TOTAL MEAN	1,333 43.0	1,035 34.5	783 25.3	688 22.2	570 19.7	2,734 88.2	3,895 130	12,694 409	10,468 349	4,487 145	1,805 58.2	6,026 201
MAX	67	42 29	35 14	25 16	22 17	187	167 95	634	706	212 89	102	1,470
MIN AC-FT	25 2,640	2,050	1,550	1,360	1,130	21 5,420	7,730	141 25,180	168 20,760	8,900	32 3,580	30 11,950
STATIST	TICS OF MON	NTHLY MEA	AN DATA FO	R WATER Y	EARS 1963	- 2004, BY W	ATER YEAR	R (WY)				
MEAN MAX	77.2 280	44.0 104	27.1 52.0	20.7 42.5	19.8 44.5	35.4 88.2	112 226	401 697	502 927	235 596	134 442	117 455
(WY)	(1973)	(1987)	(1986)	(1986)	(1986)	(2004)	(1989)	(2001)	(1980)	(1995)	(1999)	(1970)
MIN (WY)	22.3 (1979)	16.7 (1976)	9.89 (1977)	9.51 (1977)	8.42 (1977)	9.11 (1977)	40.3 (1964)	132 (2002)	64.1 (2002)	27.5 (2002)	27.5 (2002)	25.1 (1978)
SHMMA	RY STATIST	TICS		FOR 2003 C.	AI ENDAR	VEAD	EOR 200	04 WATER Y	/EAD	WATER	YEARS 19	063 - 2004
	L TOTAL	103		34,053		ILAK	46.51		LAK	WAILK	I LAKS 15	703 - 2004
ANNUA	L MEAN	MEAN		93			12				144	1072
LOWEST	Τ ANNUAL N Γ ANNUAL N	<b>IEAN</b>									226 43.9	1973 2002
	T DAILY ME T DAILY ME			944 e9			e1,47 e1		p 20 c 29	3,0		Sep 6, 1970 Feb 8, 2002
	L SEVEN-DA UM PEAK FL		M	10	Jan	4	2,35		b 11 p 20	a7,0		Dec 23, 1976 Sep 6, 1970
MAXIM	UM PEAK ST	AGE		/A ===0			ĺ	o3.49 Se	p 20 p 20	ŕ	c6.51	Sep 6, 1970
10 PERC	L RUNOFF (A ENT EXCEE)	DS		67,550 194			92,27 34	17		104,4	406	
50 PERC	ENT EXCEE	De		17			-	56			60	

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50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

Estimated.
 From rating curve extended above 1,400 ft<sup>3</sup>/s, on basis of slope-area measurement of peak flow.

c Maximum gage height, 6.51 ft, from water-stage recorder, 6.76 ft, from floodmarks.

## 09353800 LOS PINOS RIVER NEAR IGNACIO, CO

 $LOCATION.--Lat\ 37^{\circ}09'58", long\ 107^{\circ}34'57", in\ NW^{1}_{4}NW^{1}_{4}\ sec. 26,\ T.34\ N.,\ R.7\ W.,\ La\ Plata\ County,\ Hydrologic\ Unit\ 14080101,\ on\ right\ bank\ 1.7\ mi\ downstream\ from\ Pine\ River\ Canal,\ 2.2\ mi\ upstream\ from\ Beaver\ Creek\ and\ 5.2\ mi\ northeast\ of\ Ignacio.$ 

DRAINAGE AREA.--340 mi<sup>2</sup>.

 $PERIOD\ OF\ RECORD. -- October\ 1999\ to\ current\ year.\ For\ a\ complete\ listing\ of\ historical\ data\ available\ for\ this\ site,\ see\ http://waterdata.usgs.gov/co/nwis/inventory/\\ ?site\_no=09353800$ 

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,630 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Vallecito Reservoir (station 09353000, capacity 125,640 acre-ft) 14 mi upstream since April 1941. Diversions for irrigation of about 2,040 acres upstream and about 40,040 acres downstream from the station. Some waste water is diverted to adjacent basins.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	6.6 9.6 12 10 6.8	6.8 8.7 13 13 9.1	8.6 8.0 e8.1 e8.0 e8.0	e8.3 e9.3 e9.6 e9.6 e9.5	9.8 9.4 10 e10 e11	16 13 12 15 16	86 95 163 241 250	578 574 559 541 500	25 32 30 29 25	7.0 3.2 3.1 4.4 3.4	9.3 5.0 5.9 4.3 5.0	5.3 10 2.4 42 44		
6 7 8 9 10	6.0 5.2 5.1 5.8 4.7	9.0 7.4 8.3 7.3 7.2	e8.0 7.5 9.0 e9.1 e7.7	e9.4 e9.3 e9.3 e9.3 e9.4	e11 e10 e10 e11 e13	16 17 20 26 33	195 184 216 210 178	466 440 427 385 294	55 215 463 646 480	3.2 8.2 14 13 12	8.8 7.0 6.6 5.9 3.0	29 17 8.2 4.3 4.1		
11 12 13 14 15	6.7 4.6 4.8 4.0 4.9	7.9 7.5 18 17 12	e7.8 e7.7 e7.5 e7.5 e7.6	e9.4 e9.4 e9.4 e9.6	e13 e13 e13 e13	53 79 96 97 117	168 159 156 142 136	226 193 160 127 108	328 49 26 19 28	6.9 6.5 3.5 3.9 2.2	2.2 3.2 4.7 6.2 6.5	3.9 3.8 3.7 2.6 1.9		
16 17 18 19 20	6.6 2.7 0.96 4.5	11 11 9.5 9.6 9.3	7.1 e9.3 e9.5 e10 8.9	13 11 10 9.2 9.7	e13 e12 e12 12 12	116 116 127 138 153	131 125 119 111 478	87 76 64 41 19	127 86 42 19 16	3.4 6.2 5.2 7.0 7.7	9.0 19 25 20 9.0	3.7 1.6 2.7 60 30		
21 22 23 24 25	13 10 5.5 5.9 5.1	9.1 9.5 9.2 8.6 8.9	9.1 8.6 e8.0 e7.5 e7.2	9.1 9.5 10 9.9 8.2	14 14 13 15 13	177 188 192 178 186	1,660 250 151 140 121	13 30 30 26 22	15 10 8.5 6.9 5.0	5.7 7.1 27 17 8.6	3.2 3.9 4.0 3.1 3.8	17 5.3 3.0 2.0 2.0		
26 27 28 29 30 31	7.1 5.9 6.3 5.8 6.5 5.7	e7.9 e8.0 e8.1 e8.1 e8.0	e6.6 6.6 6.7 9.4 e8.2	7.6 e10 e10 e10 10 e9.8	13 13 18 17	173 155 122 102 92 85	75 70 71 48 267	20 22 22 21 22 24	6.6 10 10 37 12	7.1 8.3 6.0 4.8 5.9 9.4	3.8 3.8 3.4 2.9 2.6 2.7	1.4 1.3 1.2 34 6.6		
TOTAL MEAN MAX MIN AC-FT	200.36 6.46 13 0.96 397	288.0 9.60 18 6.8 571	249.4 8.05 10 6.6 495	301.8 9.74 14 7.6 599	361.2 12.5 18 9.4 716	2,926 94.4 192 12 5,800	6,396 213 1,660 48 12,690	6,117 197 578 13 12,130	2,861.0 95.4 646 5.0 5,670	230.9 7.45 27 2.2 458	202.8 6.54 25 2.2 402	354.0 11.8 60 1.2 702		
							ATER YEAR	, ,						
MEAN MAX (WY) MIN (WY)	39.9 120 (2000) 6.46 (2004)	19.9 31.6 (2002) 9.60 (2004)	22.8 46.3 (2002) 8.05 (2004)	23.2 45.0 (2002) 7.45 (2003)	22.6 36.9 (2000) 10.0 (2003)	77.0 188 (2001) 24.0 (2002)	175 531 (2001) 17.6 (2002)	112 298 (2001) 12.0 (2002)	75.6 253 (2001) 6.20 (2003)	9.75 24.2 (2001) 3.32 (2003)	12.2 36.4 (2001) 2.31 (2002)	12.7 17.1 (2001) 8.28 (2000)		
SUMMAF	RY STATIST	ICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	4 WATER Y	'EAR	WATER	YEARS 2	000 - 2004		
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PERCE 50 PERCE	MEAN ANNUAL M ANNUAL M DAILY ME DAILY ME	IEAN AN AN Y MINIMUN OW 'AGE AC-FT) DS DS	4	8,01 <sup>1</sup>	3 Sep 0.92 Jul 1.3 Jul	20	1,66 2,31 40,64 16	66.0 60 Ap 0.96 Oc 2.3 Se 0 Ap 6.33 Ap	r 21 tt 18 p 22 r 21 r 21	1,0	0.33 1.1 310 6.33	2001 2003 Apr 21, 2004 Aug 16, 2002 Aug 15, 2002 Apr 21, 2004 Apr 21, 2004		

e Estimated.

#### 09354500 LOS PINOS RIVER AT LA BOCA, CO

LOCATION.--Lat 37°00'34", long 107°35'56", in NE $^1$ / $_4$ NW $^1$ / $_4$  sec.22, T.32 N., R.7 W., La Plata County, Hydrologic Unit 14080101, on downstream end of right abutment of private bridge, at southeast edge of La Boca, 0.5 mi upstream from Spring Creek, and 2 mi upstream from maximum elevation of Navajo Reservoir.

DRAINAGE AREA.--520 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1950 to current year. Monthly discharge only for some periods, published in WSP 1733. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09354500

REVISED RECORDS .-- WDR CO-00-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 6,143.58 ft (revised) above NGVD of 1929.

REMARKS.—Records good except for estimated daily discharges, which are poor. Flow regulated by Vallecito Reservoir (station 09353000, capacity 125,640 acre-ft.) 24 mi upstream since April 1941. Diversions for irrigation of about 55,000 acres upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD .-- A flood on Oct. 5, 1911 has not yet been exceeded.

V	VATER YEAR O	CTOBER 2003	TO SEPTEM					
DEC JA	N FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
22 e2 21 e2 22 e2	1 e20 1 e19 1 e23	53 52 53 103 119	141 153 358 836 902	637 627 612 598 569	127 140 134 134 127	156 144 142 144 141	165 152 180 145 153	115 119 115 287 310
20 e2 22 e2 e21 e2	0 e25 0 e20 0 e24	82 112 138 180 205	399 316 389 404 300	524 497 477 444 354	135 339 574 885 689	132 126 143 142 148	216 149 147 130 121	208 178 158 148 141
22 e2 22 e2 e21 e2	1 e38 1 e39 1 e48	215 215 219 204 216	284 285 239 212 201	300 264 229 201 168	501 220 127 131 113	129 123 118 117 111	120 111 108 115 121	134 134 126 115 102
27 e2 27 e2 27 e2	1 e109 1 e121 0 e128	203 185 194 209 233	192 187 184 173 340	144 139 134 117 102	234 220 177 132 129	115 147 134 135 138	137 231 169 145 131	99 89 89 317 311
27 e2 24 e2 23 e2	1 131 1 112 2 120	260 276 289 282 295	1,780 450 223 211 193	92 112 120 125 124	128 132 130 124 120	129 131 214 242 209	129 139 139 132 133	186 131 110 104 102
e18 e2 e19 e2 e19 e2 e19 e2	2 115 2 144 3 80 3	276 250 200 165 149 139	153 126 130 115 241	126 129 130 127 126 130	129 156 146 303 194	182 185 213 180 172 161	125 124 120 116 113 110	102 99 93 375 258
22.5 2 32 2 18 1	1.0 71.8 3 144 8 19	5,771 186 295 52 11,450	10,117 337 1,780 115 20,070	8,478 273 637 92 16,820	6,830 228 885 113 13,550	4,703 152 242 111 9,330	4,326 140 231 108 8,580	4,855 162 375 89 9,630
AN DATA FOR WA	ΓER YEARS 1951	1 - 2004, BY W	ATER YEAR	R (WY)				
396 18 (1983) (19 18.1 1	2 362 85) (1993) 6.1 22.9	215 972 (1993) 31.7 (2002)	337 1,339 (1979) 22.6 (2002)	415 1,719 (1958) 40.6 (2002)	488 1,555 (1979) 60.8 (2002)	291 1,381 (1957) 23.8 (2002)	232 1,349 (1999) 13.0 (2002)	210 725 (1997) 33.4 (2002)
FOR 2	2003 CALENDAR	R YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 195	1 - 2004
M	48.5  727 Set 9.8 Oc 15 Jan 35,090 80 39	t 15	13 1,78 1 2,21 99,60 28 12	7 0 Api 9.8 Oct 6 Oct 0 Api 6.62 Api 0 4	1 15 1 11 1 21	4,5 a6,4 169,7	582 44.6 660 Ju 6.1 Ma 8.3 A <sub>I</sub> 900 Ju b8.95 Ju 700 633 33	1973 2002 21 27, 1957 1977 1977 1977 1977 1977 1977 1977
	DEC JA  e22 e1 22 e2 21 e2 21 e2 22 e2 23 e2 21 e2 20 e2 21 e2 22 e2 21 e2 22 e2 21 e2 22 e2 20 e2 e18 e2 e19 e2 e18 e2 e7	WATER YEAR OF DAY  DEC JAN FEB  e22 e18 e22 22 e21 e20 21 e21 e19 22 e21 e23 23 e21 e24  21 e21 e27 20 e20 e25 22 e20 e20 e21 e20 e24  21 e21 e21 e34  22 e21 e34  22 e21 e34  22 e21 e34  22 e21 e38 22 e21 e39 e21 e21 e48 21 e21 e67  24 e21 e81 27 e21 e109 27 e21 e109 27 e21 e121 27 e20 e128 29 e19 127  32 e20 123 27 e21 131 24 e21 112 23 e22 120 e20 e22 116  20 e22 120 e20 e22 116  20 e22 144 e19 e23 80 e19 e23 e18 e22 696 651 2,083 22.5 21.0 71.8 32 22 3 144 e19 e23 80 e19 e23 e18 e22 696 651 2,083 22.5 21.0 71.8 32 22 3 144 e19 e23 80 e19 e23 e18 e22 696 651 2,083 22.5 21.0 71.8 32 22 3 144 e19 e23 80 e19 e23 e18 e22 696 651 2,083 22.5 21.0 71.8 32 23 144 e19 e23 80 e19 e23 e18 e22 696 651 2,083 22.5 21.0 71.8 32 23 144 e19 e23 80 e19 e23 e18 e22 696 651 2,083 22.5 21.0 71.8 32 23 144 e19 e23 80 e19 e23 e18 e22 696 651 2,083 22.5 21.0 71.8 32 22.5 21.0 71.8 32 22.5 21.0 71.8 32 23 144 e19 e23 80 e19 e23 e18 e22 696 651 2,083 22.5 21.0 71.8 32 203 144 e19 e23 80 e19 e23 80 e19 e23 80 e19 e23 e18 e22 696 651 2,083 22.5 21.0 71.8 32 22.5 21.0 71.8 32 22.5 21.0 71.8 32 23 144 e19 e23 80 e19 e23 e18 e22 696 651 2,083 22.5 5 21.0 71.8 32 22.5 21.0 71.8 32 22.5 21.0 71.8 32 23.0 24.2 e18 e22 696 651 2,083 22.5 21.0 71.8 32 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20	WATER YEAR OCTOBER 2003 DAILY MEAN V  DEC JAN FEB MAR  e22 e18 e22 53 22 e21 e20 52 21 e21 e19 53 22 e21 e23 103 23 e21 e24 119  21 e21 e29 e25 112 22 e20 e20 e25 112 22 e20 e20 e20 138 e21 e21 e34 205 22 e21 e34 205 22 e21 e38 215 22 e21 e39 219 e21 e21 e40 215 22 e21 e39 219 e21 e21 e40 215 22 e21 e39 219 e21 e21 e48 204 21 e21 e67 216 24 e21 e81 203 27 e21 e109 185 27 e21 e109 185 27 e21 e109 185 27 e21 e121 194 27 e20 e128 209 29 e19 127 233 32 e20 123 260 27 e21 131 276 24 e21 112 289 29 e19 127 233 32 e20 123 260 27 e21 131 276 24 e21 112 289 23 e22 120 282 e20 e22 116 295 20 e22 144 200 e19 e23 149 e18 e22 139  696 651 2,083 5,771 22.5 21.0 71.8 186 32 23 144 295 e19 e23 149 e18 e22 139  AN DATA FOR WATER YEARS 1951 - 2004, BY W  98.9 72.5 94.4 215 336 182 362 972 (1983) (1985) (1993) (1993) 18.1 16.1 22.9 31.7 (2003) (2003) (2003) (2002)  FOR 2003 CALENDAR YEAR  17,689.8 48.5	DEC JAN FEB MAR APR  e22 e18 e22 53 141  22 e21 e20 52 153  21 e21 e19 53 358  22 e21 e23 103 836  23 e21 e24 119 902  21 e21 e27 82 399  20 e20 e20 e25 112 316  22 e20 e20 e20 138 389  e21 e20 e21 e34 205 300  e21 e21 e34 205 300  22 e21 e38 215 285  22 e21 e38 204 212  21 e21 e48 204 212  21 e21 e67 216 201  24 e21 e81 203 192  27 e21 e121 194 184  27 e20 e128 209 173  29 e19 127 233 340  32 e20 123 260 1,780  32 e20 e128 209 173  32 e20 123 260 1,780  32 e20 e22 116 295 193  20 e22 120 282 211  e20 e22 116 295 193  20 e22 106 276 153  e18 e22 120 282 211  e20 e22 116 295 193  20 e22 116 295 193  20 e22 144 200 130  e19 e23 e19 e27 144 200 130  e19 e23 e24 120 282 211  e18 e22 139  696 651 2,083 5,771 10,117  22.5 21.0 71.8 186 337  33 2 23 144 295 1,780  AN DATA FOR WATER YEARS 1951 - 2004, BY WATER YEAR 98.9 72.5 94.4 215 337  396 182 362 972 1,339  (1983) (1985) (1993) (1993) (1993) (1979)  18.1 16.1 22.9 31.7 22.6  20 20 20 30 (2003) (2003) (2002) (2002)  FOR 2003 CALENDAR YEAR FOR 200  17,689.8 48.5 13  17,689.8 48.5 13  18 15 Jan 1 1  2,21  35,090 99,60  80  30 99,60  80  380  39 99,60	DEC JAN FEB MAR APR MAY  e22 e18 e22 53 141 637  22 e21 e20 52 153 627  21 e21 e19 53 358 612  22 e21 e23 103 836 598  23 e21 e24 119 902 569  21 e21 e27 82 399 524  20 e20 e25 112 316 497  21 e21 e20 e20 138 389 477  22 e20 e20 e25 112 316 497  22 e20 e20 e24 180 404 444  21 e21 e21 e34 205 300 354  22 e21 e40 215 284 300  22 e21 e38 215 285 264  22 e21 e38 215 285 264  22 e21 e38 215 285 264  22 e21 e38 204 212 201  21 e21 e67 216 201 168  24 e21 e81 203 192 239 229  e21 e21 e67 216 201 168  24 e21 e81 203 192 144  27 e21 e121 194 184 134  27 e20 e128 209 173 117  29 e19 127 233 340 102  32 e20 123 260 1,780 92  27 e21 131 276 450 112  23 e22 120 282 211 12  24 e21 112 289 223 120  25 e20 e22 106 282 211 125  26 e18 e22 116 295 193 124  27 e21 131 276 450 112  28 e20 22 120 282 211 125  e20 e22 144 200 130 130  32 e20 123 260 1,780 92  27 e21 131 276 450 112  28 e20 22 120 282 211 125  e19 e22 144 200 130 130 124  29 e29 e19 127 233 340 102  20 22 144 201 112 289 223 120  21 e21 e19 127 233 340 102  32 e20 123 260 1,780 92  27 e21 131 276 450 112  28 e20 e22 106 276 153 126  e18 e22 115 250 126 129  e19 e22 144 200 130 130 130  e19 e23 80 165 115 127  e19 e23 80 165 115 127  e19 e23 144 295 1,780 637  18 18 19 52 1,780 637  18 18 19 52 1,780 637  18 18 19 52 1,780 637  18 18 19 52 1,780 637  18 18 19 52 1,780 637  18 18 19 52 1,780 637  18 18 19 52 1,780 637  18 18 19 52 1,780 637  18 18 19 52 1,780 637  18 18 19 52 1,780 637  18 18 19 52 1,780 637  18 18 19 52 1,780 637  18 18 19 52 1,780 637  18 18 19 52 1,780 637  19 9.8 Oct 15 9.8	DEC JAN FEB MAR APR MAY JUN    Column	DEC JAN FEB MAR APR MAY JUN JUL  222 e18 e22 53 141 637 127 156 22 e21 e20 52 153 627 140 144 21 e21 e21 e19 53 358 612 134 142 22 e21 e23 103 836 598 134 144 23 e21 e24 119 902 569 127 141 21 e21 e21 e27 82 399 524 135 132 20 e20 e25 112 316 497 339 126 22 e20 e20 138 388 477 574 143 21 e21 e21 e34 140 444 488 5142 21 e21 e20 e24 1180 404 444 885 142 21 e21 e34 205 300 354 689 148 22 e21 e38 215 285 264 220 123 22 e21 e38 219 239 229 177 118 21 e21 e21 e67 216 201 168 113 111 21 e21 e21 e68 204 212 201 131 117 21 e21 e21 e67 216 201 168 113 111 24 e21 e21 e81 203 192 144 234 115 27 e21 e109 185 187 139 220 147 27 e21 e121 194 184 134 177 134 27 e20 e128 209 173 117 132 135 29 e19 127 233 340 102 129 138 32 e20 123 260 1,780 92 128 129 27 e21 131 276 450 112 132 131 24 e21 12 289 223 120 130 214 23 e22 120 282 211 125 124 242 240 e22 146 295 193 124 120 209 20 e22 106 276 153 126 129 156 185 219 e23 144 205 130 130 130 144 120 210 e22 144 200 130 130 130 144 23 e22 140 289 223 120 130 214 24 e21 122 289 223 120 130 214 23 e22 120 282 211 125 124 242 240 e22 146 295 193 124 120 209 20 e22 106 276 153 126 129 156 185 219 e23 144 205 1,780 637 885 242 218 18 18 19 52 115 92 113 111 26 666 651 2,083 5,771 10,117 8,478 6,830 4,703 22.5 21.0 71.8 186 337 273 228 152 360 182 362 972 1,339 1,719 1,555 1,381 29 e19 e23 144 200 130 130 130 144 120 209 20 e22 106 182 362 972 1,339 1,719 1,555 1,381 18 18 19 52 115 92 115 127 000 1059 138  AN DATA FOR WATER YEAR SID51 - 2004, BY WATER YEAR (WY)  98.9 72.5 94.4 215 133 17,719 1,555 1,381 18 18 19 52 115 98 Oct 15 36 06 284 064 066 680 238 39 120 166 0ct 15	DEC JAN FEB MAR APR MAY JUN JUL AUG  22 e18 e22 53 141 637 127 156 165  22 e21 e20 52 153 627 140 144 152  21 e21 e19 53 358 612 134 142 180  22 e21 e22 103 836 598 134 142 180  23 e21 e24 119 902 569 127 141 153  20 e20 e25 112 316 497 339 126 149  22 e20 e20 e25 112 316 497 339 126 149  22 e21 e22 188 947 7 574 143 147  221 e21 e21 e39 53 388 612 134 144 145  23 e21 e24 119 902 569 127 141 153  20 e20 e20 e25 112 316 497 339 126 149  22 e20 e20 e25 12 388 94 77 574 143 147  221 e21 e20 e20 150 120 388 389 477 574 143 147  221 e21 e34 205 300 354 689 148 121  22 e21 e24 180 404 444 885 142 130  22 e21 e38 215 284 300 501 129 120  22 e21 e38 215 285 264 220 123 111  22 e21 e38 215 285 264 220 123 111  22 e21 e38 216 249 219 239 229 171 181 108  221 e21 e38 204 212 20 113 117 115  24 e21 e38 204 212 20 113 111 17 115  24 e21 e38 204 212 20 168 113 111 121  24 e21 e38 204 212 20 168 113 111 121  24 e21 e18 203 192 144 234 115 137  27 e21 e109 185 187 139 220 147 231  27 e21 e109 185 187 139 220 147 231  27 e21 e121 194 184 134 177 134 169  27 e20 e128 209 173 117 132 135 145  29 e19 127 233 340 102 129 138 131  32 e20 e22 106 276 450 112 132 131 139  24 e21 131 276 450 112 132 131 139  25 e20 e22 106 276 153 126 129 156 185 124  260 e22 116 295 193 124 120 209 133  20 e22 120 282 211 125 124 242 132  20 e22 106 276 153 126 129 156 185 124  e19 e23 80 165 115 127 303 180 116  e19 e23 80 165 115 127 303 180 116  e19 e23 80 165 115 177 303 180 116  e19 e23 80 165 115 197 600 130 -179 (1958)  ANDATAFORWATERYEARS 1951 - 2004, BY WATER YEAR WY  98.9 72.5 94.4 135 136 146 146 148  AND ATAFORWATERYEARS 1951 - 2004, BY WATER YEAR WY  98.9 72.5 94.4 15 13 16 004 11 8.3 3 Aµ  48.5 137

21

90 PERCENT EXCEEDS

e Estimated. a From rating curve extended above 5,100 ft<sup>3</sup>/s.

b Maximum gage height, 9.00 ft, backwater from ice, sometime during period, Dec 23, 1990 to Jan 17, 1991.

## 09355000 SPRING CREEK AT LA BOCA, CO

 $LOCATION.--Lat\ 37^{\circ}00'40", long\ 107^{\circ}35'47", in\ SE^{1}_{4}SW^{1}_{4}\ sec.15,\ T.32\ N.,\ R.7\ W.,\ La\ Plata\ County,\ Hydrologic\ Unit\ 14080101,\ on\ right\ bank\ in\ an\ excavated\ channel,\ 0.2\ mi\ upstream\ from\ mouth,\ and\ 0.2\ mi\ east\ of\ La\ Boca.$ 

DRAINAGE AREA.--58.2 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1950 to current year. Monthly discharge only for some periods, published in WSP 1733. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09355000

REVISED RECORDS .-- WDR CO-00-02: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,160 ft above NGVD of 1929, from topographic map.

REMARKS.--Records poor. Part of flow is return waste from irrigation. Nearly all irrigation in this basin is water diverted from Los Pinos River which causes a considerable change in the annual pattern and natural flow.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	1.5 2.9 2.2 3.0 2.8	0.12 0.32 0.96 0.45 0.21	e1.9 e1.6 e1.9 e2.1 e1.6	e0.65 e0.34 e0.38 e0.85 e0.98	e1.3 e1.2 e1.1 e0.75 e0.69	9.7 9.7 12 32 26	3.9 4.5 24 121 139	15 11 14 22 25	46 46 49 48 44	64 55 57 59 57	59 56 71 58 59	38 41 43 126 143	
6 7 8 9 10	3.0 3.1 3.2 2.9 3.4	0.18 0.19 0.25 0.24 0.24	e1.4 e1.8 e1.5 e1.5 e1.2	e1.1 e0.98 e0.88 e0.79 e0.72	e1.2 e1.3 e1.5 e1.4 e1.3	12 14 13 13 12	21 16 33 29 9.9	22 25 28 27 26	48 52 45 50 50	50 47 55 56 50	69 50 49 45 45	59 52 51 47 53	
11 12 13 14 15	3.7 3.8 4.0 4.1 4.3	0.27 0.32 5.6 3.4 0.85	e1.1 1.1 e1.1 e1.2 e1.4	e0.67 e0.80 e0.87 e0.92 e0.85	e4.4 e4.3 e3.8 e6.9 e14	10 9.7 9.1 8.5 8.3	9.3 11 11 9.2 8.3	31 41 44 44 44	45 45 44 44 48	45 45 44 40 39	45 44 49 49 50	52 54 52 54 52	
16 17 18 19 20	5.0 4.7 3.9 4.6 8.0	0.52 0.93 1.7 2.2 2.8	e1.6 e1.6 e1.7 e1.9 e2.2	e0.95 e1.0 e1.1 e1.00 e0.93	e18 e28 e31 e34 e33	7.6 7.0 7.0 7.1 7.3	7.6 7.2 6.9 6.8 6.7	45 51 44 40 41	49 75 85 53 48	43 50 49 63 56	51 118 50 56 51	54 52 54 168 119	
21 22 23 24 25	9.5 10 11 1.9 0.19	2.9 e2.8 e2.6 e2.6 e2.6	e1.8 e1.5 e1.3 e1.1 e1.1	e0.77 e0.53 e0.64 e0.90 e1.0	e32 e35 29 32 29	7.6 7.6 7.8 8.0 7.4	6.5 6.5 6.7 6.4 6.0	43 41 46 47 49	50 53 52 52 52	48 55 75 76 73	44 39 40 37 39	51 45 40 40 42	
26 27 28 29 30 31	0.09 0.09 0.10 0.10 0.09 0.09	e2.1 e1.8 e1.9 e1.9 e1.9	e0.51 e0.80 e0.75 e0.37 e0.68 e0.67	e1.0 e1.1 e1.1 e1.2 e1.2 e1.3	26 27 40 14	6.8 6.1 5.4 4.7 4.2 4.0	5.9 21 7.2 7.3 23	43 40 42 39 44 44	57 68 69 160 77	65 68 74 60 60 57	37 38 37 35 35 34	40 37 37 80 65	
TOTAL MEAN MAX MIN AC-FT	107.25 3.46 11 0.09 213	44.85 1.50 5.6 0.12	41.98 1.35 2.2 0.37 83	27.50 0.89 1.3 0.34 55	453.14 15.6 40 0.69 899	304.6 9.83 32 4.0 604	581.8 19.4 139 3.9 1,150	1,118 36.1 51 11 2,220	1,704 56.8 160 44 3,380	1,735 56.0 76 39 3,440	1,539 49.6 118 34 3,050	1,841 61.4 168 37 3,650	
			N DATA FO 5.30					` ′	56.0	65.7	64.9	57.0	
MAX (WY) MIN (WY)	MAX 87.9 29.6 20. (WY) (1973) (1956) (198 MIN 2.63 1.49 1.			4.66 19.3 (1980) 0.45 (2003)	9.89 54.8 (1980) 2.06 (2000)	17.8 89.7 (1979) 2.36 (1999)	12.9 41.1 (1979) 0.57 (2003)	38.1 64.5 (1992) 13.5 (2003)	56.9 79.3 (1986) 24.4 (1977)	65.7 111 (1996) 1.07 (2002)	64.8 132 (1996) 0.45 (2002)	57.0 92.0 (1983) 0.93 (2002)	
SUMMAR	Y STATIST	TCS		FOR 2003 C	CALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 195	1 - 2004	
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS		M	28 ( 12,57/ 4:	7.4 1 Sep 0.01 Sep 0.02 Sep 0	20	16 40 18,84 5	0.09 Oc 0.10 Oc 0.9 Sep 4.62 Sep 0	o 19 t 26 t 26 t 26 o 19		0.00 Au 0.02 Se 980 Se b4.62 Se 010	1987 2002 ar 6, 1995 g 1, 2002 p 19, 2003 pp 6, 1970 pp 6, 1970		
	NT EXCEE				3.4 0.27			2 0.80			3.0		

a From rating curve extended above 160 ft<sup>3</sup>/s, on the basis of field estimate of peak flow. b Maximum gage height, 5.98 ft, Mar 9, 1960, backwater from ice.

#### SAN JUAN RIVER BASIN

#### 09358000 ANIMAS RIVER AT SILVERTON, CO

 $LOCATION.--Lat~37^{\circ}48'40", long~107^{\circ}39'31", in~SE^{1}{}_{2}NW^{1}{}_{4}~sec.17, T.41~N., R.7~W., San~Juan~County, \\ Hydrologic~Unit~14080104, on~right~bank~at~southeast~end~of~14th~Street, 800~feet~upstream~from~Cement~Creek, in~the~city~of~Silverton.$ 

DRAINAGE AREA.--70.6 mi<sup>2</sup>.

PERIOD OF RECORD.--June to October 1903 (staff gage), monthly discharge only, published in WSP 1313. October 1991 to September 1993, October 1994 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09358000

REVISED RECORDS .-- WDR CO 92-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,290 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. No diversions upstream for irrigation in Animas River drainage. Natural regulation by many lakes upstream from station. Mineral Point Ditch exports 100 to 400 acre feet of water per year from headwaters of Animas River to Uncompangre River drainage. City of Silverton diverts some water from Boulder Creek (tributary) for municipal use.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1884, was probably that of October 5, 1911.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	56 63 62 62 58	28 30 29 24 e24	e25 e24 e23 e23 e22	e13 e13 e13 e13	e17 e17 e17 e16 e16	e18 e18 e19 e19 e20	e77 e82 e82 e80 e85	77 80 99 147 212	344 429 517 583 643	215 211 198 179 171	72 70 67 63 64	30 30 31 83 63	
6 7 8 9 10	55 55 53 51 50	e24 e24 e24 e25 e25	e22 e22 e20 e16 e14	e13 e14 e14 e13 e13	e16 e16 e16 e15 e15	e21 e21 e21 e22 e23	e88 e90 e90 e83 e73	278 360 407 431 469	721 765 718 670 595	176 174 164 160 152	63 57 55 52 49	54 51 50 49 53	
11 12 13 14 15	49 47 45 39 39	e25 e25 e25 e26 e26	e14 e14 e15 e16 e16	e12 e12 e12 e13 e13	e15 e16 e16 e16 e16	e24 e26 e28 e29 e32	e69 e66 62 64 64	443 335 243 191 181	460 402 396 496 502	144 138 138 141 136	47 45 43 42 41	54 51 50 48 46	
16 17 18 19 20	39 38 37 37 36	e25 e25 e25 e25 e25	e16 e17 e17 e16 e16	e13 e14 e14 e15 e16	e16 e15 e15 e15 e15	e34 e35 e36 e39 e44	69 74 76 70 67	231 308 379 491 536	452 429 382 408 402	141 134 134 129 131	41 43 45 43 43	44 42 43 149 330	
21 22 23 24 25	35 35 34 33 30	e25 e25 e25 e25 e25	e15 e15 e14 e15 e16	e16 e16 e16 e16 e16	e16 e16 e16 e16 e16	e58 e60 e64 e90 e97	66 64 61 57 58	494 450 404 392 416	346 292 265 266 261	127 118 160 151 124	42 43 e40 e38 e37	250 183 157 146 140	
26 27 28 29 30 31	27 26 27 28 27 27	e24 e23 e25 e26 e25	e16 e16 e16 e16 e16 e14	e16 e17 e17 e17 e17 e17	e17 e17 e18 e18	e87 e80 e77 e75 e73 e74	58 66 77 82 81	449 487 591 587 394 320	231 219 216 227 214	112 104 96 87 82 77	e36 e34 e32 e31 e31 e32	133 122 113 128 125	
TOTAL MEAN MAX MIN AC-FT	1,300 41.9 63 26 2,580	757 25.2 30 23 1,500	537 17.3 25 14 1,070	447 14.4 17 12 887	466 16.1 18 15 924	1,364 44.0 97 18 2,710	2,181 72.7 90 57 4,330	10,882 351 591 77 21,580	12,851 428 765 214 25,490	4,404 142 215 77 8,740	1,441 46.5 72 31 2,860	2,848 94.9 330 30 5,650	
				R WATER YI		,		` ′	402	242	107	91.0	
MEAN MAX (WY) MIN (WY)	59.3 136 (1998) 30.4 (2002)	36.3 64.9 (1998) 21.2 (2002)	27.7 41.4 (1998) 17.3 (2004)	24.1 33.8 (1995) 13.8 (1992)	22.5 36.1 (1995) 15.7 (1992)	28.9 44.0 (2004) 18.6 (1992)	64.5 92.9 (2000) 39.6 (1993)	315 454 (1996) 147 (1995)	492 794 (1997) 128 (2002)	243 734 (1995) 30.5 (2002)	107 253 (1995) 28.0 (2002)	81.0 131 (1999) 42.2 (2001)	
SUMMAR	RY STATIST	ICS		FOR 2003 CA	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 199	92 - 2004	
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE		1	35,117 96. 1,020 e14 15	2 May Dec Dec	10	1,05	08 05 Jun 2 Jan 3 Jan 60 Jun	11 9 7	1,1 1,2	9.7 C 13 J 170 J	1995 2002 un 4, 1997 let 30, 1999 an 9, 2004 un 4, 1997		
MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				69,650 241 42 16			78,30 36 4		. /	90,8		un 4, 1997	

a Maximum gage height during period Jun to Oct 1903, 4.90 ft, Jun 17, 1903, site and datum then in use. b Maximum gage height since 1992, 4.32 ft, May 28, 2003, due to channel change, present site and datum.

#### 09358550 CEMENT CREEK AT SILVERTON, CO

 $LOCATION.--Lat~37^{\circ}49'11", long~107^{\circ}39'47", in~SW^{1}/_{4}SW^{1}/_{4}~sec.8, T.41~N., R.7~W., San~Juan~County, \\ Hydrologic~Unit~14080104, on~left~bank, at~abandoned~railroad~crossing~Cement~Creek, 0.1~mile~north~of~Silverton, and~0.8~mile~upstream~from~mouth.$ 

DRAINAGE AREA.--20.1 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1991 to September 1993, October 1994 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09358550

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,380 ft above NGVD of 1929, from topographic map.

REMARKS.—Records good except for estimated daily discharges, which are poor. Natural regulation by many lakes upstream from station. Diversions for mining operations upstream from station. However, these diversions are returned to the creek upstream of the gage. Mine drainage contributes considerable amounts of water to the creek.

EXTREMES OUTSIDE PERIOD OF RECORD.—A major flood occurred October 5, 1911. A more recent flood occurred June 6, 1978, when Lake Emma (6.5 mi northeast of Silverton) was undermined by mining operations, and released a large quantity of water into the headwaters of Cement Creek. Discharge not determined.

#### DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES OCT NOV DEC JUN ш SEP DAY JAN **FEB** MAR APR MAY AUG 15 13 12 e10 10 10 36 31 109 51 20 12 9.9 35 36 50 20 12 18 13 10 116 3 17 13 e12 e11 10 9.8 33 52 123 46 20 14 e12 42 42 4 17 13 13 10 97 29 80 134 19 44 21 9.9 28 151 20 16 e11 10 103 e10 6 16 13 12 e10 e10 e9.9 29 122 169 43 19 18 15 13 12 e11 e9.9 9.8 30 137 187 42. 18 16 8 15 13 13 e10 10 10 28 141 190 40 17 15 26 39 15 13 12 e10 11 140 172 16 15 e10 22 10 15 13 e12 e10 e10 12 148 146 37 16 17 20 20 e12 e12 12 35 11 15 13 13 e10 e9.9 123 15 16 34 14 110 12 113 15 14 e10 10 16 e12 14 20 34 15 15 13 14 13 e10 e10 84 105 23 33 e11 e11 e10 65 15 13 13 12 9.7 15 25 66 119 32 14 14 11 13 13 e12 11 e9.6 15 30 91 114 34 14 14 16 13 13 e12 9.8 16 34 118 104 31 16 14 17 11 9.9 20 34 93 31 14 13 e11 e10 137 16 19 e9.8 25 31 30 27 167 97 57 e12 12 e10 e12 33 20 13 12 11 9.8 180 93 15 116 21 13 e12 12 9.9 38 28 162 82 33 15 74 11 22 13 e12 12 e10 10 39 24 143 72 31 15 51 e12 e12 22 20 42 37 23 13 e12 e10 98 34 132 67 46 14 24 e12 9.8 35 13 e10 128 67 36 14 25 9.9 45 21 31 12 e12 128 63 14 36 e11 11 26 12 13 12 e10 9.8 44 24 131 57 28 13 32 27 28 e12 e12 36 27 32 39 27 25 13 13 12 12 e11 e10 10 140 55 53 30 28 e11 e10 e10 166 29 12 e12 23 39 55 23 34 e11 e10 e9.6 160 13 12 24 33 52 22 34 e11 13 31 12 10 30 107 21 13 e11 TOTAL 429 379 322 287.2 654.0 841 3,668 3,198 1,086 484 873 364 9.90 MEAN 13.8 12.6 11.7 10.4 21.1 28.0 118 107 35.0 15.6 29.1 10 45 39 180 190 20 116 MAX 18 13 12 MIN 12 12 11 10 9.6 97 20 31 52 2.1 13 12 107 17 10 28 34 MED 13 13 12 10 15 128 15 752 722 570 AC-FT 851 639 1.300 1.670 7,280 6,340 2,150 960 1.730 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2004, BY WATER YEAR (WY) MEAN 18.3 15.8 12.9 11.9 11.9 15.8 29.2 102 123 52.4 25.3 22.3 MAX 28.9 19.8 15.6 15.8 17.8 22.7 42.1 145 263 149 50.7 34.6 (WY) (1998)(1999)(1995) 9.26 (1995)(1995)(1995)(2000)(1996) 37.3 (1995) 24.6 (1995)(1999)(1999)MIN 13 Ś 12.68 27 8 36 12.322.6 13 2 12.9 169 (2002)(2003)(1998)(2002)(2002)(2004)(2004)(2002)(2003)(2002)(2002)(2002)(WY) SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1992 - 2004 12,585.2 ANNUAL TOTAL 10.646.8 ANNUAL MEAN 29.2 36.8 HIGHEST ANNUAL MEAN 56.3 1995 LOWEST ANNUAL MEAN HIGHEST DAILY MEAN 17.0 2002 190 239 Jun 16, 1995 May 28 Jun 8 385 Feb 18 LOWEST DAILY MEAN e7.5 e,a7.5 Jan 2, 1992 e9.6 Feb 16 ANNUAL SEVEN-DAY MINIMUM 7.7 Feb 16 9.8 Feb 15 e7.6 Dec 23, 2002 MAXIMUM PEAK FLOW 234 471 Jun Jun 14, 1995 b2.06 2.85 MAXIMUM PEAK STAGE Jun Jun 14, 1995

24 960

109

10

26 690

96

18

11

ANNUAL RUNOFF (AC-FT)

10 PERCENT EXCEEDS

50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

21 120

60

15

8.7

e Estimated.

a Also occurred Feb 18, 2003.

b Maximum gage height, 2.34 ft, Jan 5, backwater from ice.

#### 09359010 MINERAL CREEK AT SILVERTON, CO

LOCATION.--Lat 37°48′10", long 107°40′20", in NW ½NE½ sec.19, T.41 N., R.7 W., San Juan County, Hydrologic Unit 14080104, on right bank at southwest end of Greene Street at abandoned bridge crossing Mineral Creek, 300 ft downstream from U. S. Highway 550 crossing Mineral Creek, 1,400 ft upstream from mouth, and 0.5 mi southwest of Silverton.

DRAINAGE AREA.--52.5 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1991 to September 1993, October 1994 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09359010

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 9,245.98 ft above NGVD of 1929, from San Juan County bench mark.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural regulation by many lakes upstream from station. Diversions upstream from Mineral Creek drainage to Uncompander River drainage consists of 100 to 200 acre-feet per year through Red Mountain Ditch. City of Silverton diverts some water from Bear Creek (tributary) for municipal use.

EXTREMES OUTSIDE PERIOD OF RECORD.—Maximum flood known occurred October 5, 1911. An indirect determination of peak flow for flood of September 5, 1970, was run in very close proximity to present site, discharge, 3,070 ft<sup>3</sup>/s, gage height not determined.

DISCHARGE, CUBIC FEET PER SECOND

							TO SEPTEM ALUES	IBER 2004				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	28	e29	e19	e16	e17	e63	66	266	173	63	34
2 3	50 52	30 29	e30 e31	e19 e19	e16 e16	e17 e18	e62 e62	70 89	307 371	175 162	64 63	33 35
4	52	28	e31	e18	e16	e18	e66	131	436	144	60	96
5	48	28	e30	e17	e16	e19	e68	172	535	132	64	70
6 7	46	29 29	e28	e16	e16	e20	e67	220	653	143 143	70	61
8	45 44	29 29	e26 e24	e15 e15	e15 e15	e20 e21	e64 e60	289 324	741 691	136	62 58	59 58
9	44	29	e18	e16	e15	e23	e56	335	626	132	55	55
10	43	30	e16	e16	e15	e24	e51	364	490	127	52	61
11 12	44 42	29 28	e15	e16 e16	e15	e26 e27	e47 e45	342 242	356 296	121 112	50 48	63 57
13	40	29	e15 e15	e16	e15 e15	e30	47	180	309	113	46	54
14	36	28	e15	e16	e16	e33	49	145	387	116	45	50
15	37	e27	e15	e16	e16	e35	52	144	388	111	43	47
16 17	36 35	e29 e27	e15 e15	e16 e15	e17 e17	e39 e42	59 65	206 274	353 305	107 102	44 48	44 42
18	33 34	e24	e15	e15	e17	e46	65	335	251	102	50	42
19	34	e23	e15	e16	e17	e48	61	456	288	111	50	198
20	33	e20	e16	e16	e16	e53	57	501	294	114	48	745
21	32	e17	e17	e16	e16	e55	57	436	256	106	47	303
22 23	32 31	e16 e14	e17 e17	e16 e16	e16 e16	e56 e69	54 50	374 344	216 207	97 134	47 44	199 157
24	31	e14	e17	e16	e16	e75	47	347	209	124	42	135
25	29	e14	e18	e16	e16	e55	47	358	196	100	40	121
26	27	e14	e19	e16	e16	e47	50	385	179	91	39	105
27 28	27 28	e14 e16	e20 e21	e15 e15	e16 e16	e45 e47	60 73	434 527	174 171	86 79	37 37	94 88
29	28	e24	e20	e15	e16	e56	77	493	184	73	36	104
30	27	e27	e19	e15		e61	71	300	172	70	35	99
31	27		e19	e16		e62		247		66	34	
TOTAL MEAN	1,157 37.3	723 24.1	618 19.9	500 16.1	461 15.9	1,204 38.8	1,752 58.4	9,130 295	10,307 344	3,604 116	1,521 49.1	3,309 110
MAX	52	30	31	19	17	75	77	527	741	175	70	745
MIN	27	14	15	15	15	17	45	66	171	66	34	33
AC-FT	2,290	1,430	1,230	992	914	2,390	3,480	18,110	20,440	7,150	3,020	6,560
				R WATER YI					200	201	404	<b>5</b> / <b>5</b>
MEAN MAX	46.9 96.4	31.1 46.9	24.4 34.3	20.8 27.1	19.3 29.5	24.8 38.8	52.6 77.4	250 391	380 635	201 540	104 260	76.7 147
(WY)	(1998)	(1998)	(2000)	(1995)	(1995)	(2004)	(2000)	(2001)	(1997)	(1995)	(1999)	(1999)
MIN	26.8	18.0	16.9	13.4	14.5	18.2	35.4	96.5	75.0	25.4	21.9	38.1
(WY)	(2002)	(2002)	(2002)	(1992)	(2003)	(2003)	(1998)	(1995)	(2002)	(2002)	(2002)	(2001)
SUMMAF	RY STATIST	ICS		FOR 2003 C	ALENDAR	YEAR	FOR 200	4 WATER Y	'EAR	WATER	YEARS 199	2 - 2004
ANNUAL				28,840			34,28					
ANNUAL		ME A N		79.	.0		ç	93.7			103 147	1999
HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN											39.6	2002
	DAILY ME.			880	May		74		p 20	Ģ		ın 4, 1997
LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM			Л	e14 14	Feb Feb		e1		v 23 v 22			ar 16, 2001 an 12, 1992
MAXIMUM PEAK FLOW			VI	14	100	10	1,28		p 20	1,0		in 15, 1995
MAXIMU	JM PEAK ST.	AGE						3.07 Se	p 20		3.41 Ju	ın 15, 1995
	. RUNOFF (A ENT EXCEEI			57,200 176			68,01 29			74,	540 292	
	ENT EXCEEI			38				15		4	40	
	ENT EXCEEI			15				16			18	

e Estimated.

356 SAN JUAN RIVER BASIN

#### 09359020 ANIMAS RIVER BELOW SILVERTON, CO

 $LOCATION.-Lat~37^{\circ}47'25", long~107^{\circ}40'01", in~SW^{1}/_{4}SW^{1}/_{4}~sec. 20, T.41~N., R.7~W., San~Juan~County, \\ Hydrologic~Unit~14080104, on~right~bank~500~ft~upstream~from~14080104, \\ LOCATION.-Lat~37^{\circ}47'25", long~107^{\circ}40'01", in~SW^{1}/_{4}SW^{1}/_{4}~sec. 20, T.41~N., R.7~W., San~Juan~County, \\ Hydrologic~Unit~14080104, on~right~bank~500~ft~upstream~from~14080104, \\ LOCATION.-Lat~37^{\circ}47'25", long~107^{\circ}40'01", in~SW^{1}/_{4}SW^{1}/_{4}~sec. 20, \\ LOCATION.-Lat~37^{\circ}47'25", long~107^{\circ}40'01", long~107^{\circ}40'01$ Durango-Silverton Railroad, crossing Animas River, 0.7 mi downstream from Mineral Creek, and 1.1 mi south of Silverton.

PERIOD OF RECORD.--October 1991 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site no=09359020

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,200 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges and discharges above 1,000 ft<sup>3</sup>/s, which are poor. Natural regulation by many lakes upstream from station. Diversions from Animas River and Mineral Creek drainages through Red Mountain and Mineral Point Ditches amount to 600 to 1,100 acre-feet per year. City of Silverton diverts some water for municipal use from Bear Creek and Boulder Creek, both tributaries upstream.

DISCHARGE, CUBIC FEET PER SECOND

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood known occurred October 5, 1911.

#### WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES OCT NOV DEC JUN ш SEP DAY JAN **FEB** MAR APR MAY AUG 127 e71 e55 e44 e52 201 235 635 490 180 63 147 82 e54 e45 e53 255 490 180 735 62 3 146 82 e76 e49 e48 e52 216 343 880 472 170 67 e48 76 70 e52 e54 521 704 156 165 292 177 4 147 e71 e70 e49 194 1.080 432 138 411 e48 e47 200 1,320 6 132 80 e45 e45 e52 214 779 1,560 435 174 141 e66 130 71 e65 e39 e40 e55 231 928 1,770 439 149 132 72 73 929 8 126 e65 e32 e40 e59 227 1.690 420 138 124 413 e30 212 1,570 120 127 e60 e43 e63 960 127 10 127 76 e50 e31 e45 e68 189 979 1,370 395 120 135 11 127 75 73 e42 e35 e47 171 907 892 376 114 141 e42 832 119 e76 708 354 12 e41 e46 107 126 162 77 e35 e44 80 158 544 778 357 102 120 13 110 e46 472 77 e37 e47 e43 169 15 97 77 e38 e40 78 179 449 979 356 94 104 e46 97 76 e36 e44 e45 73 204 558 832 360 95 97 16 91 96 75 e32 e42 e49 76 229 701 738 341 104 17 612 344 95 e69 e40 51 89 231 95 e41 827 111 19 94 e71 e51 e47 49 112 207 1.090 701 350 469 108 93 20 e77 e52 e50 e46 140 193 1 180 794 364 105 1.170 21 92 81 e52 e50 171 192 348 101 740 e47 996 687 22 90 77 e52 e49 e48 188 180 881 636 319 103 548 23 87 e58 e50 e47 e47 190 169 798 579 440 96 466 24 595 88 86 e54 e55 e47 e47 202 155 780 415 420 25 80 e72 e57 e47 e48 256 155 815 568 338 83 396 26 70 e73 e57 e47 e49 273 164 874 498 307 78 363 70 71 e62 e56 e47 e49 e49 e50 204 260 27 e53 232 990 490 283 76 74 324 28 251 299 180 1,320 484 e48 29 71 e60 e49 e51 150 1,190 511 70 354 e44 71 e49 255 210 30 e68 e48 149 489 67 342 31 70 e56 e47 171 610 194 65 TOTAL 3,231 1,645 1,395 1,343 3,597 6,011 24,021 26,288 11,295 3,498 8,090 2.165 MEAN 104 72.2 53.1 45.0 46.3 200 876 364 270 116 775 113 82 55 273 279 1,320 490 1,170 MAX 147 76 51 1,770 180 MIN 70 54 32 30 40 52 155 235 484 194 65 47 650 AC-FT 4 290 3 260 2.770 7 130 52.140 22,400 6 940 16,050 6,410 2.660 11,920 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 -2004, BY WATER YEAR (WY) MEAN 60.2 717 1,022 192 130 87.6 67.1 554 164 691 484 236 MAX 270 136 92.9 79.8 85.6 116 216 1.002 1,647 1,393 520 336 (WY) (1998) (1997)(1995)(1998)(1998)(1998)(1995)(2004)(2000)(1996)(1995)(1999)97.5 MIN 46.9 40.240.9 49.1 122 301 83.0 70.5(WY) (2002)(2002)(2002)(1992)(2003)(2000)(1993)(1995)(2002)(2002)(2002)(2001)SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1992 - 2004 ANNUAL TOTAL 77,972 92,579 ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN 253 214 272 395 1997 2002 114

May 29

Dec 17

Dec 12

1,770

2,510

736

109

47

183,600

e30

36

3.66

Jun

Jan 9

Jan

Jun

Jun

2,350

2,970

754

112

197,300

e30

36

a4.89

Jul 10, 1995

9, 1995

9, 1995

Jan 9, 2004 7, 2004

Jan

Jul

Jul

2,120

154,700

487

108

43

e32

37

HIGHEST DAILY MEAN

MAXIMUM PEAK FLOW

10 PERCENT EXCEEDS

50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

MAXIMUM PEAK STAGE

ANNUAL RUNOFF (AC-FT)

LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM

Estimated.

a Maximum gage height, 4.90 ft, Jun 1, 1997.

JUN

JUL

AUG

SEP

357

#### 09361500 ANIMAS RIVER AT DURANGO, CO

 $LOCATION.--Lat~37^{\circ}16'45", long~107^{\circ}52'47", in~SW^{1}{}_{4}SW^{1}{}_{4}sec.20, T.35~N., R.9~W., La~Plata~County, Hydrologic~Unit~14080104, on~left~bank~at~abandoned~power~plant~at~Durango,~0.8~mi~upstream~from~Lightner~Creek.$ 

DRAINAGE AREA.--692 mi<sup>2</sup>.

OCT

NOV

DEC

DAY

PERIOD OF RECORD.—July to December 1895, April 1896 to December 1898, April 1899 to December 1900, March to August 1901 (gage heights and discharge measurements only), April to November 1902, March to April 1903 (gage heights only, erroneously stated as discredited in WSP 1563), May to October 1903, July 1904 to December 1905, January to December 1910 (gage heights only), January to September 1911, January 1912 to current year. Monthly or yearly discharge only for some periods, published in WSP 1313. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09361500

REVISED RECORDS.--WSP 764: Drainage area. WSP 929: 1927(M). WSP 1243: 1911, 1918(M). WSP 1563: 1911-25 (monthly figures only).

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 6,501.57 ft above NGVD of 1929. See WSP 1713 or 1733 for history of changes prior to Mar. 2, 1921.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 4,000 acres upstream from station. Natural regulation by many lakes and regulation for power upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1885, that of Oct. 5, 1911.

## DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES JAN FEB MAR APR MAY

DAI	OCI	NOV	DEC	JAIN	FED	MAK	Ark	MAI	JUN	JUL	AUG	SEF
1	339	181	198	e179	162	171	852	1,060	1,860	949	385	189
2	324	194	201	e180	148	207	935	1,060	2,010	915	362	184
3	334	216	186	e179	e169	212	1,070	1,170	2,360	868	367	177
4	333	229	181	182	e169	235	1,050	1,550	2,660	809	349	227
5	315	220	183	e179	e169	245	1,040	2,020	3,010	733	325	495
6	294	216	189	e164	e164	242	1,080	2,440	3,370	703	356	381
7	294	213	177	e150	e153	244	1,160	2,960	3,530	716	352	328
8	285	214	179	e140	148	262	1,210	3,280	3,590	697	332	308
9	279	201	177	e140	150	289	1,160	3,290	3,220	679	312	298
10	273	201	163	e141	e156	336	1,110	3,430	2,890	636	297	285
11	272	208	161	e141	e161	379	1,040	3,480	2,240	615	281	290
12	256	205	167	e148	e162	420	942	2,990	1,900	588	265	285
13	246	245	146	e156	e160	461	910	2,280	1,670	582	260	257
14	254	239	147	e160	e154	486	963	1,800	1,860	571	253	251
15	242	231	e150	e161	150	511	999	1,620	2,050	568	251	242
16	235	213	e150	e160	146	504	1,070	1,810	1,890	568	249	238
17	236	212	e145	e159	173	506	1,130	2,320	1,830	570	265	226
18	231	215	140	158	177	544	1,160	2,420	1,570	554	269	218
19	210	204	171	146	185	619	1,090	3,080	1,550	546	270	265
20	208	207	184	169	187	718	997	3,540	1,590	554	275	2,950
21	218	213	170	180	190	819	928	3,230	1,470	538	269	2,270
22	207	217	177	165	165	914	882	2,920	1,280	517	262	1,460
23	202	192	172	150	162	976	840	2,550	1,150	523	255	1,070
24	207	168	153	157	202	952	773	2,300	1,100	720	245	905
25	207	198	173	158	200	1,090	736	2,270	1,060	605	239	793
26 27 28 29 30 31	183 172 186 185 182 178	210 196 179 179 187	180 175 e160 e156 155 172	162 e162 e163 e165 e164 e163	198 205 218 172	1,190 1,140 975 824 780 785	744 832 1,040 1,160 1,170	2,340 2,470 2,780 3,220 2,380 1,890	985 936 903 1,030 1,020	543 556 518 485 438 408	224 212 206 202 197 185	708 640 596 662 802
TOTAL	7,587	6,203	5,238	4,981	4,955	18,036	30,073	75,950	57,584	19,272	8,571	18,000
MEAN	245	207	169	161	171	582	1,002	2,450	1,919	622	276	600
MAX	339	245	201	182	218	1,190	1,210	3,540	3,590	949	385	2,950
MIN	172	168	140	140	146	171	736	1,060	903	408	185	177
AC-FT	15,050	12,300	10,390	9,880	9,830	35,770	59,650	150,600	114,200	38,230	17,000	35,700
STATIST	ICS OF MON	NTHLY MEA	N DATA FO	OR WATER Y	EARS 1898	- 2004, BY W	VATER YEAR	R (WY)				
MEAN	407	285	221	202	204	299	833	2,289	2,816	1,184	583	466
MAX	1,866	814	412	326	352	844	1,818	4,791	5,846	3,057	1,806	1,709
(WY)	(1942)	(1942)	(1942)	(1973)	(1920)	(1916)	(1985)	(1920)	(1917)	(1995)	(1999)	(1970)
MIN	162	158	129	103	110	133	246	474	357	154	134	161
(WY)	(1957)	(1935)	(1990)	(1933)	(1933)	(1990)	(1977)	(1977)	(2002)	(2002)	(2002)	(1956)
SUMMAF	RY STATIST	ICS		FOR 2003 C	ALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 1	898 - 2004
SUMMARY STATISTICS ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN				184,659 506	i		256,45 70	50 )1		8 1,3 2	315 366 238	1917 2002
HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE			Л	4,160 127 136 366,300	Feb Feb	24	3,59 14 14 4,17 508,70	40 Dec 45 Jan 70 Sep 5.58 Sep	1 7	10,7 1 a25,0 590,3	94 100 000 11.00	Jun 19, 1949 Mar 2, 1913 Dec 19, 1917 Oct 5, 1911 Oct 5, 1911
ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				1,050 258 153			1,93 28 16	30 30		2,2		

e Estimated.

a Present site and datum, from rating extended above 13,000 ft<sup>3</sup>/s.

#### 09365500 LA PLATA RIVER AT HESPERUS, CO

LOCATION.--Lat 37°17'23", long 108°02'24", in NE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.14, T.35 N., R.11 W., La Plata County, Hydrologic Unit 14080105, on right bank at Hesperus, 700 ft downstream from U.S. Highway 160.

DRAINAGE AREA.--37 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.—June to August 1904, May 1905 to September 1906, August to November 1910, June 1917 to current year. Monthly discharge only for some periods, published in WSP 1313. Records for Nov. 11 to Dec. 31, 1910, published in WSP 289, have been found to be unreliable and should not be used. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09365500

REVISED RECORDS.--WSP 1243: 1906(M). WSP 1563: 1923 (monthly figures only). See also PERIOD OF RECORD.

GAGE.--Water-stage recorder with satellite telemetry and concrete flume. Datum of gage is 8,104.71 ft above NGVD of 1929. Prior to May 1, 1920, nonrecording gage, and May 1, 1920 to May 24, 1927, water-stage recorder, at several sites about 600 ft downstream at different datums. May 25, 1927 to Sept. 30, 1938, water-stage recorder at site 60 ft downstream and Oct. 1, 1938 to Sept. 30, 1941, at present site at datum 1.00 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Cherry Creek Ditch exports water upstream from station for irrigation of about 2,000 acres in Cherry Creek drainage. The Pine Ridge Ditch diverts water upstream from station for irrigation of about 300 acres downstream, and also for irrigation of about 300 acres in each of the Lightner and Basin Creek drainages. The Pine River Ditch also diverts up to 1,000 acre-ft for storage in the Lightner Creek drainage.

COOPERATION .-- Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood observed occurred Oct. 5, 1911.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES  DAY OCT NOV DEC IAN EER MAR APR MAY IUN IIII AUG SEP													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	12 13 15 16 15	7.4 7.6 8.2 7.6 7.3	e6.0 e6.0 e5.5 e5.5 e6.0	6.5 7.3 e7.0 e6.0 e5.0	6.6 e6.0 5.6 e6.0 e6.0	6.3 6.1 6.0 6.0 6.0	91 95 94 79 71	79 76 89 136 189	78 102 130 150 145	38 35 32 30 27	14 13 13 12 13	4.8 4.6 4.9 15 18		
6 7 8 9 10	14 14 13 13 13	7.0 6.9 6.9 6.8 6.7	e6.0 e6.0 e6.0 e5.5 e5.5	e6.0 e6.5 e6.0 e6.0	e5.5 e6.0 e6.0 e5.5 e6.0	6.0 6.2 6.7 7.3 7.8	70 82 84 80 73	231 255 267 277 272	137 140 129 110 92	27 27 25 24 23	13 11 9.7 8.7 8.2	15 13 11 9.8 10		
11 12 13 14 15	13 13 12 12 11	6.7 6.7 9.0 7.8 7.4	e5.5 6.0 e6.0 e6.0 e6.0	6.2 e5.5 e5.5 5.9 5.5	e6.0 e5.5 e5.0 e5.5 e5.5	8.4 9.3 9.8 10 14	66 60 60 67 70	243 183 133 97 99	67 56 51 57 59	23 21 20 21 19	7.7 7.1 7.0 7.3 7.5	9.5 9.0 8.5 8.1 7.6		
16 17 18 19 20	10 10 9.9 9.4 9.4	7.0 7.0 6.8 6.4 6.5	e6.0 e6.0 e6.0 6.4 6.4	5.5 5.4 5.4 5.7 5.4	e5.5 e5.5 6.1 5.8 5.8	26 35 44 54 71	84 100 101 91 78	140 166 178 217 226	56 51 47 50 49	20 29 24 21 19	6.9 7.2 6.9 6.8 6.6	7.5 7.3 7.5 37 114		
21 22 23 24 25	9.2 8.8 8.6 8.4 8.1	6.4 6.5 e5.5 e6.0 e6.0	6.4 6.4 6.6 6.7 6.0	5.3 5.4 5.5 5.9 5.3	5.8 5.8 5.7 6.1 5.8	91 108 101 105 115	72 66 59 54 50	184 164 146 120 122	44 41 37 36 34	18 17 22 25 22	7.0 6.6 6.1 5.9 5.7	65 45 36 30 26		
26 27 28 29 30 31	7.9 7.7 7.5 7.3 7.3 7.2	e5.5 e5.0 e5.5 e5.5 e5.5	6.4 e6.0 e5.0 e5.0 e5.5 e5.5	5.0 5.0 5.0 5.6 6.6 6.5	5.8 e6.0 e6.0 6.4	122 105 82 69 69 76	53 75 107 106 96	123 126 142 145 95 75	40 39 39 42 29	21 28 24 20 18 16	5.5 5.4 5.2 5.0 4.8 4.9	24 22 20 29 29		
TOTAL MEAN MAX MIN AC-FT	335.7 10.8 16 7.2 666	201.1 6.70 9.0 5.0 399	183.8 5.93 6.7 5.0 365	179.4 5.79 7.3 5.0 356	168.8 5.82 6.6 5.0 335	1,388.9 44.8 122 6.0 2,750	2,334 77.8 107 50 4,630	4,995 161 277 75 9,910	2,137 71.2 150 29 4,240	736 23.7 38 16 1,460	248.7 8.02 14 4.8 493	648.1 21.6 114 4.6 1,290		
		THLY MEA				,		` /						
MEAN MAX (WY) MIN (WY)	15.1 148 (1942) 3.27 (1957)	10.6 54.3 (1942) 3.11 (1938)	8.17 20.4 (1987) 2.94 (1938)	6.93 15.0 (1926) 2.65 (1938)	7.34 18.0 (1971) 3.06 (1990)	15.8 54.2 (1997) 3.83 (1977)	81.0 203 (1924) 8.40 (1977)	169 384 (1941) 19.8 (1977)	129 421 (1980) 8.78 (2002)	37.1 154 (1957) 3.65 (2002)	23.4 79.1 (1999) 3.38 (2002)	20.3 124 (1927) 3.73 (1956)		
SUMMAR	Y STATISTIC	CS		FOR 2003 C	ALENDAR Y	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 19	918 - 2004		
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN HIGHEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			18,900 67 10	.1 May .6 Jan .7 Jan	12	27 30 26,89	77.0 4.6 Sep 4.9 Aug 07 May 4.79 May	2 g 28 y 10	a1,8 31,6	b4.30	1941 2002 Jun 28, 1927 Feb 22, 1939 Oct 13, 1917 Sep 22, 1941 Sep 22, 1941			

Present datum, from rating curve extended above 620 ft<sup>3</sup>/s, on basis of slope-area measurement of peak flow.

b Maximum gage height for period of record, 5.13 ft, Sep 6, 1970.

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#### 09366500 LA PLATA RIVER AT COLORADO-NEW MEXICO STATE LINE

 $LOCATION.--Lat\ 36°59'59", long\ 108°11'17", in\ NW^{1/4}SE^{1/4}sec.\ 10, T.32\ N., R.13\ W., La\ Plata\ County,\ CO,\ Hydrologic\ Unit\ 14080105,\ on\ right\ bank\ at\ Colorado-New\ Mexico\ State\ line,\ 0.5\ mi\ downstream\ from\ Johnny\ Pond\ Arroyo,\ and\ 4.9\ mi\ north\ of\ La\ Plata,\ NM.$ 

DRAINAGE AREA.--331 mi<sup>2</sup>.

PERIOD OF RECORD.--January 1920 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS .-- WSP 1313: 1934 (M), 1936 (M).

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 5,972.03 ft above NGVD of 1929. See WSP 1713 or 1733 for history of changes prior to Mar. 17, 1934. Mar. 17, 1934 to July 1, 1996, water-stage recorder at same site, and at datum 3.12 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 15,000 acres, mostly upstream

COOPERATION .-- Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES  DAY OCT NOV DEC IAN EER MAR APP MAY HIN HIL ALIG SEP													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	2.4 2.6 5.1 6.3 5.9	1.4 3.0 4.3 5.2 5.3	3.2 2.8 2.0 1.1 e0.80	3.4 3.6 3.4 2.3 1.3	3.3 2.7 3.8 4.0 3.2	6.3 6.4 6.4 6.4 6.1	48 48 89 147 179	46 35 33 52 70	62 49 51 67 88	12 16 15 13	0.00 0.00 0.37 1.0 1.7	0.00 0.00 0.01 e0.80 e1.0		
6 7 8 9 10	4.9 4.1 4.0 4.2 4.2	5.1 4.9 4.5 4.1 3.9	0.73 0.74 0.57 0.01 0.00	2.0 4.3 3.7 3.3 3.5	2.3 2.6 3.0 2.6 2.9	5.3 5.3 5.9 7.1	130 108 97 93 77	90 99 102 94 84	91 115 87 69 73	8.3 6.8 7.1 6.5 6.4	0.74 0.21 0.37 1.2 1.0	e0.80 0.46 0.29 0.25 0.20		
11 12 13 14 15	4.7 4.5 3.5 2.5 2.8	4.0 4.0 7.7 6.0 4.3	0.00 0.00 0.00 0.00 0.24	3.8 3.5 2.8 2.7 3.4	2.7 2.4 2.6 3.2 3.4	8.6 9.7 12 18 22	57 58 47 41 37	76 51 50 84 62	65 50 39 37 35	5.8 5.1 5.4 4.4 5.1	0.92 0.61 0.34 0.33 0.29	0.12 0.03 0.02 0.01 0.00		
16 17 18 19 20	2.5 2.1 1.5 1.5	3.9 4.1 3.8 3.6 3.6	2.3 4.9 6.1 6.3 3.9	3.4 3.2 2.9 2.8 3.0	3.1 3.4 5.7 7.9 5.4	21 20 22 22 22 24	34 47 50 50 44	70 75 50 78 101	36 34 34 32 33	3.6 6.0 8.8 6.8 5.0	0.45 0.54 0.46 1.1 1.4	0.00 0.00 0.00 1.2 6.4		
21 22 23 24 25	1.5 1.7 1.7 1.7 1.8	3.6 3.6 3.0 3.1 3.6	3.8 3.4 1.3 0.77 2.4	2.9 2.4 2.4 2.6 3.2	5.1 5.3 5.4 7.3 6.8	23 25 24 21 21	47 48 36 30 25	88 86 103 73 58	29 25 22 18 15	3.5 4.3 7.9 13	1.1 0.86 0.56 0.34 0.39	39 24 18 15 12		
26 27 28 29 30 31	1.9 1.8 1.9 1.9 1.5	3.5 3.1 3.1 4.3 3.3	2.4 2.0 1.1 1.9 3.7 3.3	1.7 1.9 2.6 2.8 2.9 3.8	6.6 6.6 12 7.4 	29 26 19 14 27 42	21 21 31 50 64	53 67 80 85 62 75	15 18 16 25 17	11 21 14 8.3 1.9 0.19	0.28 0.10 0.05 0.06 0.01 0.00	11 10 8.0 14 23		
TOTAL MEAN MAX MIN AC-FT	89.5 2.89 6.3 1.4 178	120.9 4.03 7.7 1.4 240	61.76 1.99 6.3 0.00 123	91.5 2.95 4.3 1.3 181	132.7 4.58 12 2.3 263	510.8 16.5 42 5.3 1,010	1,854 61.8 179 21 3,680	2,232 72.0 103 33 4,430	1,347 44.9 115 15 2,670	256.19 8.26 21 0.19 508	16.78 0.54 1.7 0.00 33	185.59 6.19 39 0.00 368		
								, ,	65.0	10.4	11.0	11.2		
MEAN MAX (WY) MIN (WY)	13.3 260 (1942) 0.10 (1935)	260 99.2 53.9 38.3 5 (1942) (1942) (1987) (1942) (1 0.10 0.98 1.24 0.80			16.6 53.9 (1924) 2.38 (2003)	36.4 139 (1997) 0.63 (1977)	102 364 (1980) 3.06 (1977)	106 506 (1941) 5.32 (1977)	65.2 306 (1957) 1.94 (1924)	19.4 99.4 (1957) 0.02 (1922)	11.9 65.1 (1957) 0.01 (1922)	11.3 126 (1927) 0.00 (1956)		
SUMMAR	RY STATIST	ICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	4 WATER Y	'EAR	WATER	YEARS 192	1 - 2004		
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS		1	382 ( ( 9,120 33	26 2 Sep 0.00 Jul 0.00 Jul	13	17 20 13,68	0.00 Dec 0.01 Sej 0.2 Ap 4.98 Ap	or 5 c 10 p 12 r 5 r 5	1, b4,	a0.00 Ju 0.00 Ju 750 Au	1973 1977 1974, 1941 11 3, 1922 11 3, 1922 18 24, 1927 19 24, 1927			
	ENT EXCEE				0.00			0.37			1.7			

e Estimated. a No flow at times in many years.

b From rating curve extended above 750 ft<sup>3</sup>/s, on basis of slope-area measurement of peak flow, at datum then in use.

#### 09371000 MANCOS RIVER NEAR TOWAOC, CO

LOCATION.--Lat 37°01'39", long 108°44'27", Ute Indian Reservation, Montezuma County, Hydrologic Unit 14080107, on left bank 700 ft upstream from bridge on U.S. Highway 491, 2.0 mi north of Colorado-New Mexico State line, 6.0 mi upstream from Aztec Creek, and 12 mi south of Towaoc.

DRAINAGE AREA.--526 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1920 to September 1943, February 1951 to current year. Monthly discharge only for some periods, published in WSP 1313. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09371000

REVISED RECORDS.--WSP 1733: 1924 (monthly figures only). WDR CO-83-3: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 5,055.98 ft above NGVD of 1929. See WSP 1713 or 1733 for history of changes prior to Mar. 11, 1954.

REMARKS.--Records good except for Sept. 29, 30 and estimated daily discharges, which are poor. Diversions for irrigation of about 10,000 acres upstream from station. One diversion upstream from station for irrigation of about 100 acres downstream from station. Flow regulated by Jackson Gulch Reservoir, capacity, 10,000 acre-ft since March 1949.

				R YEAR OC	TOBER 2003	TO SEPTEM					
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
0.31 0.22 0.51 34 8.7	5.8 6.3 7.3 e12 e12	e4.9 e8.7 e8.0 e8.2 e6.9	e5.3 e5.2 e4.9 e5.0 e5.1	e8.8 e9.0 e9.0 e9.3 e9.5	19 16 17 16 18	18 25 70 195 182	55 53 55 56 65	7.4 4.6 2.4 1.2 0.43	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 24 92
6.8 6.5 6.5 6.7 6.4	e9.0 8.3 8.2 8.4 8.6	e8.8 e8.0 e9.0 8.9 7.0	6.1 6.0 e6.8 e7.1 e7.4	e9.1 e8.8 e8.3 e8.7 e8.5	16 14 20 28 38	129 108 110 108 91	77 87 88 85 78	0.06 0.04 1.7 3.2 1.1	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	25 13 14 8.6 6.0
6.6 7.6 7.7 6.4 5.4	9.0 10 11 16 21	5.8 e5.5 e5.1 e4.7 e4.5	e7.4 e7.4 e7.4 e7.4 e7.5	e8.5 e8.4 e8.1 e8.3 e8.5	38 38 39 37 33	82 75 65 58 57	67 53 40 29 30	1.7 0.62 0.50 0.05 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	4.2 4.4 3.8 2.6 1.9
5.2 5.4 5.1 5.1 6.1	13 12 11 11 11	e4.4 4.3 4.2 5.2 e5.7	e7.4 e7.6 e7.8 e8.1 e8.3	e8.2 e7.8 13 18 24	28 25 24 24 23	56 60 61 57 51	24 21 20 17 24	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 6.0 0.91 0.01 0.00	1.7 1.1 0.45 7.6 40
5.5 5.3 4.7 4.7 4.5	9.8 e6.5 e4.8 e5.2	e6.0 e5.8 e5.5 e5.0 e4.8	e8.2 e7.8 e8.6 e8.7 e8.5	28 22 23 22 18	24 26 27 25 25	44 42 39 38 34	65 50 41 33 22	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	49 36 45 39 33
4.4 4.9 6.0 6.2 6.6 6.7	e5.1 e4.3 e4.1 e4.5 e4.3	e5.0 e5.0 e5.1 5.0 5.5 e5.0	e8.3 e7.5 6.2 e8.2 e8.2 e8.5	18 23 30 29	29 31 28 21 18 17	31 29 32 40 48	13 9.4 8.4 7.6 25 15	0.00 0.00 0.00 0.00 0.00	0.00 4.2 1.7 0.16 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	28 24 20 105 142
196.74 6.35 34 0.22 390	270.5 9.02 21 4.1 537	185.5 5.98 9.0 4.2 368	223.9 7.22 8.7 4.9 444	414.8 14.3 30 7.8 823	782 25.2 39 14 1,550	2,035 67.8 195 18 4,040	1,313.4 42.4 88 7.6 2,610	25.00 0.83 7.4 0.00 50	6.06 0.20 4.2 0.00 12	6.92 0.22 6.0 0.00 14	771.35 25.7 142 0.00 1,530
26.3 459 (1942) 0.11 (1978)	19.2 113 (1987) 1.00 (1935)	13.9 45.5 (1942) 0.02 (2003)	13.2 45.6 (1942) 0.31 (1960)	24.7 92.1 (1993) 3.53 (2003)	- 2004, BY V 56.5 198 (1993) 5.26 (1977)	120 330 (1980) 0.15 (1977)	171 642 (1922) 0.00 (1959)	80.8 395 (1957) 0.00 (1951)	28.1 185 (1921) 0.00 (1939)	27.9 364 (1921) 0.00 (1922)	26.9 137 (1970) 0.00 (1922)
RY STATIST	TICS		FOR 2003 C	CALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 192	1 - 2004
ANNUAL M DAILY ME DAILY ME SEVEN-DA IM PEAK FI IM PEAK ST RUNOFF (A ENT EXCEE)	MEAN AN AN Y MINIMUN OW 'AGE AC-FT) DS DS	Λ	1,81 1,81 9,76	0 Sep 0.00 Jan 0.00 Jan 0.00 Jan 0.00 4.3	1	19 31 12,36	05 Apr 0.00 Jun 0.00 Jun 0.00 Jun 14 Sep 3.83 Sep 00 18	15 15 5	3,0 b5,3 36,1	4.28 050 O a0.00 J 0.00 J 800 O c7.30 O 90 36 15	1973 1959 ct 14, 1941 ul 12, 1922 ul 12, 1922 ct 14, 1941 ct 14, 1941
	0.31 0.22 0.51 34 8.7 6.8 6.5 6.7 6.4 6.6 7.7 6.4 5.4 5.1 5.1 5.1 6.1 5.5 5.3 4.7 4.7 4.5 4.4 4.9 6.0 6.2 6.6 6.7 196.74 6.35 34 0.22 390 ICS OF MON 26.3 459 (1942) 0.11 (1978) RY STATIST TOTAL MEAN ANNUAL M TOAILY ME DAILY ME SEVEN-DA RY STATIST TOTAL MEAN ANNUAL M TOAILY ME DAILY ME SEVEN-DA RY STATIST TOTAL MEAN ANNUAL M TOAILY ME DAILY ME	0.31 5.8 0.22 6.3 0.51 7.3 34 e12 8.7 e12 6.8 e9.0 6.5 8.3 6.5 8.2 6.7 8.4 6.4 8.6 6.6 9.0 7.6 10 7.7 11 6.4 16 5.4 21 5.2 13 5.4 12 5.1 11 5.1 11 5.1 11 5.5 11 5.3 9.8 4.7 e4.8 4.5 e5.2 4.4 e5.1 4.9 e4.3 6.0 e4.1 6.2 e4.5 6.6 e4.3 6.7 196.74 270.5 6.35 9.02 34 21 0.22 4.1 390 537 ICS OF MONTHLY MEA 26.3 19.2 459 113 (1942) (1987) 0.11 1.00 (1978) (1935) RY STATISTICS TOTAL MEAN ANNUAL MEAN ANNUAL MEAN ANNUAL MEAN ANNUAL MEAN TANNUAL MEAN ANNUAL MEAN ANN	0.31	OCT NOV DEC JAN  0.31 5.8 e4.9 e5.3 0.22 6.3 e8.7 e5.2 0.51 7.3 e8.0 e4.9 34 e12 e8.2 e5.0 8.7 e12 e6.9 e5.1 6.8 e9.0 e8.8 6.1 6.5 8.3 e8.0 6.0 6.5 8.2 e9.0 e6.8 6.7 8.4 8.9 e7.1 6.4 8.6 7.0 e7.4 6.6 9.0 5.8 e7.4 7.7 11 e5.1 e7.4 6.4 16 e4.7 e7.4 5.4 21 e4.5 e7.5 5.2 13 e4.4 e7.4 5.4 12 4.3 e7.6 5.1 11 4.2 e7.8 5.1 11 5.2 e8.1 6.1 11 e5.7 e8.3 5.5 11 e6.0 e8.2 5.3 9.8 e5.8 e7.8 4.7 e6.5 e5.5 e8.6 4.7 e6.5 e5.5 e8.6 4.7 e4.8 e5.0 e8.7 4.5 e5.2 e4.8 e8.5 4.4 e5.1 e5.0 e8.3 4.9 e4.3 e5.0 e7.5 6.2 e4.5 5.0 e8.7 6.3 e9.0 e7.5 6.6 e4.1 e5.1 6.2 6.2 e4.5 5.0 e8.7 6.3 e9.0 e7.5 6.6 e4.3 5.5 e8.2 6.7 e e5.0 e8.3 4.9 e4.3 e5.0 e7.5 6.2 e4.5 5.0 e8.2 6.7 e e5.0 e8.3 4.9 e4.3 e5.0 e7.5 6.2 e4.5 5.0 e8.7 6.3 e9.0 5.98 7.22 34 21 9.0 8.7 6.2 e4.5 5.0 e8.2 6.6 e4.3 5.5 e8.2 6.7 e e5.0 e8.5 196.74 270.5 185.5 223.9 6.35 9.02 5.98 7.22 34 21 9.0 8.7 0.22 4.1 4.2 4.9 390 537 368 444  ICS OF MONTHLY MEAN DATA FOR WATER YATE AND ALLY MEAN ANNUAL MEAN ANN	OCT NOV DEC JAN FEB  0.31 5.8 e4.9 e5.3 e8.8 0.22 6.3 e8.7 e5.2 e9.0 0.51 7.3 e8.0 e4.9 e9.0 34 e12 e8.2 e5.0 e9.3 8.7 e12 e6.9 e5.1 e9.5 6.8 e9.0 e8.8 6.1 e9.1 6.5 8.3 e8.0 6.0 e8.8 6.5 8.2 e9.0 e6.8 e8.3 6.7 8.4 8.9 e7.1 e8.7 6.4 8.6 7.0 e7.4 e8.5 7.6 10 e5.5 e7.4 e8.4 7.7 11 e5.1 e7.4 e8.1 6.4 16 e4.7 e7.4 e8.3 5.4 21 e4.5 e7.5 e8.5 5.2 13 e4.4 e7.4 e8.2 5.4 12 4.3 e7.6 e7.8 5.1 11 4.2 e7.8 5.1 11 4.2 e7.8 5.1 11 5.2 e8.1 18 6.1 11 e5.7 e8.3 24 5.5 11 e6.0 e8.2 28 4.7 e6.5 e5.5 e8.6 23 4.7 e4.8 e5.0 e8.7 4.7 e4.8 e5.0 e8.7 4.7 e4.8 e5.0 e8.7 6.6 e7.8 e8.3 6.7 e8.3 e5.0 e8.3 24 6.6 e7.8 e8.3 e7.8 e22 4.5 e5.2 e4.8 e8.5 18 6.1 11 e5.1 e6.0 e8.2 28 6.6 e6.6 e4.3 e5.0 e8.7 e22 6.6 e4.3 e5.0 e8.7 e22 6.8 e8.9 e7.9 e8.5 e7.2 e8.9 e7.9 e8.5 6.9 e8.5 e7.5 e8.5 e8.6 e23 6.0 e4.1 e5.1 e6.2 30 6.2 e4.5 e5.0 e8.5 e8.2 e9.6 6.7 e e5.0 e8.5 e7.5 e8.5 6.7 e7.5 e7.5 e8.5 6.8 e7.8 e22 6.9 e7.5 e8.5 e7.5 e8.5 6.9 e8.5 e7.8 e8.2 e9.0 e6.6 e4.3 e5.0 e8.7 e22 6.0 e4.1 e5.1 e6.2 30 6.2 e4.5 e5.2 e4.8 e8.5 18 6.3 e7.4 e8.2 e7.5 e8.5 e7.5 e8.6 e23 6.6 e4.3 e5.0 e8.7 e22 6.6 e6.2 e4.5 e5.0 e8.7 e22 6.6 e6.3 e8.2 e9.0 e8.5 e7.5 e8.6 e23 6.7 e7.5 e7.5 e8.5 e8.2 e7.5 e7.5 e7.5 e7.5 e7.5 e7.5 e7.5 e7.5	OCT NOV DEC JAN FEB MAR  0.31 5.8 e4.9 e5.3 e8.8 19 0.22 6.3 e8.7 e5.2 e9.0 16 0.51 7.3 e8.0 e4.9 e9.0 17 34 e12 e6.9 e5.1 e9.5 18 6.8 e9.0 e8.8 6.1 e9.1 16 6.5 8.2 e9.0 e6.8 e8.3 20 6.5 8.3 e8.0 e7.4 e8.5 38 6.6 6.5 8.2 e9.0 e6.8 e8.3 20 6.4 8.6 7.0 e7.4 e8.5 38 6.6 9.0 5.8 e7.4 e8.5 38 6.6 9.0 5.8 e7.4 e8.5 38 6.6 10 e5.5 e7.4 e8.5 38 6.6 10 e5.5 e7.4 e8.1 39 6.4 16 e4.7 e7.4 e8.1 39 6.4 16 e4.7 e7.4 e8.3 37 7.7 11 e5.1 e7.4 e8.1 39 6.4 16 e4.7 e7.4 e8.3 37 5.2 13 e4.4 e7.4 e8.2 28 5.4 12 e4.3 e7.6 e7.8 25 5.1 11 5.2 e8.1 18 24 5.1 11 5.2 e8.1 18 24 6.1 11 e5.7 e8.3 24 23 5.5 11 e6.0 e8.2 28 24 5.3 9.8 e5.8 e7.8 22 26 4.7 e4.8 e5.0 e8.7 22 25 6.6 e4.3 5.5 e8.5 18 25 6.7 e6.5 e5.5 e8.6 23 27 6.9 e4.3 e5.0 e8.7 22 25 6.6 e4.3 5.5 e8.5 30 6.9 e8.3 e7.8 22 26 6.7 e4.8 e8.5 18 29 6.9 e4.3 e5.0 e8.7 22 25 6.6 e4.3 5.5 e8.5 18 25 6.7 e4.9 e4.3 e5.0 e8.7 22 25 6.6 e4.3 5.5 e8.6 23 27 6.7 e4.8 e8.5 18 29 6.2 e4.5 5.0 e8.7 22 25 6.3 9.8 e5.8 e7.8 22 26 6.6 e4.3 5.5 e8.6 23 27 19.2 4.1 4.2 4.9 7.8 14 390 537 368 444 823 1.550 6.2 e4.5 5.0 e8.2 29 21 196.74 270.5 185.5 23.9 414.8 782 6.35 9.02 5.98 7.22 14.3 25.2 34 29 6.2 e4.5 5.0 e8.2 29 21 196.74 270.5 185.5 23.9 414.8 782 6.35 9.02 5.98 7.22 14.3 25.2 34 21 9.0 8.7 30 39 0.22 4.1 4.2 4.9 7.8 14 390 537 368 444 823 1.550 CSOF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2004, BY WATER YEARS 192	OCT NOV DEC JAN FEB MAR APR  0.31 5.8 e4.9 e5.3 e8.8 19 18 0.22 6.3 e8.7 e5.2 e9.0 16 25 0.51 7.3 e8.0 e4.9 e9.0 17 70 34 e12 e8.2 e5.0 e9.3 16 195 8.7 e12 e6.9 e5.1 e9.5 18 182 6.8 e9.0 e8.8 6.1 e9.1 16 129 6.5 8.3 e8.0 6.0 e8.8 14 108 6.5 8.3 e8.0 6.0 e8.8 14 108 6.6 8.9 e9.0 e6.8 e8.3 20 110 6.7 8.4 8.9 e7.1 e8.7 28 108 6.6 9.0 5.8 e7.4 e8.5 38 91 6.6 9.0 5.8 e7.4 e8.5 38 91 6.6 9.0 5.8 e7.4 e8.5 38 92 6.6 10 e5.5 e7.4 e8.4 38 75 7.6 10 e5.5 e7.4 e8.4 38 75 7.7 11 e5.1 e7.4 e8.1 39 e65 6.4 16 e4.7 e7.4 e8.3 37 58 5.4 21 e4.5 e7.5 e8.5 33 57 5.2 13 e4.4 e7.4 e8.2 28 56 5.4 12 4.3 e7.6 e7.8 25 60 5.1 11 5.2 e8.1 18 24 57 5.1 11 5.2 e8.1 18 24 57 6.1 11 e5.7 e8.3 24 23 51 5.5 11 e6.0 e8.2 28 24 44 61 5.3 9.8 e5.8 e7.8 22 26 42 4.7 e4.8 e5.0 e8.7 22 25 38 4.7 e4.8 e5.0 e8.7 22 25 38 4.7 e4.8 e5.0 e8.7 22 25 38 3.4 e4.4 e5.1 e5.0 e8.7 22 25 38 3.4 e7.6 e6.5 e5.5 e8.6 e8.5 31 29 31 3.5 e6.7 e8.2 29 21 40 3.6 e6.7 e8.4 55.0 e8.7 22 25 38 3.4 e9.4 e4.3 e5.0 e8.7 22 25 38 3.4 e9.4 e4.3 e5.0 e8.7 22 25 38 3.4 e9.4 e4.3 e5.0 e8.7 22 25 38 3.4 e9.4 e7.5 e8.5 e8.6 e8.	OCT NOV DEC JAN FEB MAR APR MAY  0.31 5.8 e4.9 e5.3 e8.8 19 18 55 0.22 6.3 e8.7 e5.2 e9.0 16 25 53 0.51 7.3 e8.0 e4.9 e9.0 17 70 55 34 e12 e6.9 e5.1 e9.5 18 182 65 6.8 e9.0 e8.8 6.1 e9.5 18 182 65 6.8 e9.0 e8.8 6.1 e9.1 16 129 77 6.5 8.2 e9.0 e6.8 e8.3 20 110 88 6.5 8.3 e8.0 6.0 e8.8 14 108 87 6.5 8.2 e9.0 e6.8 e8.3 20 110 88 6.6 8 e9.0 5.8 e7.4 e8.5 38 91 78 6.6 9.0 5.8 e7.4 e8.5 38 91 78 6.6 9.0 5.8 e7.4 e8.5 38 82 67 7.6 10 e5.5 e7.4 e8.4 38 75 53 7.7 11 e5.1 e7.4 e8.1 39 65 40 5.4 21 e4.5 e7.5 e8.5 33 57 30 5.2 13 e4.4 e7.4 e8.3 37 58 29 5.4 11 e4.5 e7.5 e8.5 33 57 5.2 13 e4.4 e7.4 e8.2 28 5.4 12 e3.3 e7.6 e7.8 25 60 21 5.1 11 5.2 e8.1 18 24 57 5.1 11 e5.7 e8.3 24 23 51 24 5.1 11 e5.7 e8.3 24 23 51 24 5.1 11 e5.7 e8.3 24 23 51 24 5.5 11 e6.0 e8.2 28 24 44 65 5.3 9.8 e5.8 e7.8 22 26 42 4.4 e5.1 e5.7 e8.5 38 33 3 34 22 4.4 e5.1 e5.0 e8.7 22 25 38 33 4.9 e3.3 e5.8 e7.8 22 26 64 4.7 e4.8 e5.0 e8.7 22 25 38 33 4.9 e3.3 e5.8 e7.8 22 26 64 4.7 e4.8 e5.0 e8.7 22 25 38 33 57 10 e5.6 e7.5 e8.5 e7.8 25 60 21 5.1 11 e5.7 e8.3 24 23 51 24 5.3 e8.4 e5.0 e8.7 22 25 38 33 57 10 e5.5 e8.5 e7.8 22 26 64 4.7 e4.8 e5.0 e8.7 22 25 38 33 57 10 e5.6 e7.5 e8.5 e7.8 25 60 10 e6.4 e4.1 e5.1 e5.0 e8.5 e7.8 25 60 10 e6.1 e5.5 e5.5 e8.6 e7.8 25 60 10 e6.1 e6.1 e7.5 e8.5 e7.8 e7.5 e7.5 e7.5 e8.5 e7.8 e7.5 e7.5 e7.5 e7.5 e7.5 e7.5 e7.5 e7.5	WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004	WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004	OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG  0.31 5.8 e4.9 c5.3 e8.8 19 18 55 7.4 0.00 0.00  0.32 6.3 e8.7 e5.2 e9.0 16 25 55 7.4 0.00 0.00  34 e12 e8.2 e5.0 e9.0 16 25 55 54 46 0.00 0.00  35 e12 e6.9 e5.1 e9.5 18 182 65 0.43 0.00 0.00  6.8 e9.0 c8.8 6.1 e9.1 16 195 56 1.2 0.00 0.00  6.5 8.2 e9.0 e6.8 e8.3 20 110 88 1.7 0.04 0.00 0.00  6.5 8.2 e9.0 e6.8 e8.3 20 110 88 1.7 0.04 0.00 0.00  6.6 8.2 e9.0 e6.8 e8.3 20 110 88 1.7 0.00 0.00  6.6 8.6 7 0 e7.4 e8.5 38 91 78 1.1 0.00 0.00  6.6 10 e5.5 e7.4 e8.4 38 91 78 1.1 0.00 0.00  7.6 10 e5.5 e7.4 e8.4 38 75 53 0.62 0.00 0.00  7.7 11 e5.1 e7.4 e8.1 39 65 40 0.50 0.00  6.4 16 e4.7 e7.4 e8.1 39 65 40 0.50 0.00 0.00  6.5 10 e5.5 e7.4 e8.4 38 75 53 0.62 0.00 0.00  7.5 11 e5.1 e7.4 e8.1 39 65 40 0.50 0.00 0.00  6.5 10 e5.5 e7.4 e8.4 38 75 53 0.62 0.00 0.00  7.6 10 e5.5 e7.4 e8.1 39 65 40 0.50 0.00 0.00  6.5 10 e5.1 e7.4 e8.1 39 65 40 0.50 0.00 0.00  7.5 11 e5.1 e7.4 e8.1 39 65 40 0.50 0.00 0.00  6.4 16 e4.7 e7.4 e8.3 37 58 29 0.05 0.00 0.00  6.5 11 e4.5 e7.5 e8.5 33 57 30 0.00 0.00 0.00  6.5 e8.2 e9.0 e6.8 e8.3 20 1.00 0.00 0.00  6.6 e9.0 \$8.8 e7.4 e8.1 39 65 40 0.50 0.00 0.00  7.6 10 e5.5 e7.4 e8.1 39 65 40 0.50 0.00 0.00  7.6 11 e5.1 e7.4 e8.1 39 65 40 0.50 0.00 0.00  6.4 16 e4.7 e7.4 e8.2 28 56 24 0.00 0.00 0.00  6.5 e8.2 13 e4.4 e7.4 e8.2 28 56 0.21 0.00 0.00 0.00  6.5 e8.2 13 e4.4 e7.4 e8.2 28 56 0.21 0.00 0.00 0.00  6.5 e8.2 13 e4.4 e7.4 e8.2 28 56 0.21 0.00 0.00 0.00  6.5 e8.2 13 e4.4 e7.4 e8.2 28 56 0.24 0.00 0.00 0.00  6.5 e8.2 13 e4.4 e7.4 e8.2 28 56 0.21 0.00 0.00 0.00  6.5 e7.8 e8.2 28 29 0.00 6.00 0.00 0.00  6.5 e8.2 28 28 24 44 66 50 0.00 0.00 0.00 0.00  6.5 e7.8 e8.2 29 0.00 6.00 0.00 0.00  6.5 e7.8 e8.2 29 0.00 6.00 0.00 0.00  6.5 e7.8 e8.2 29 2.00 0.00 0.00 0.00 0.00  6.6 e8.8 e8.2 29 2.1 40 0.00 0.00 0.00 0.00  6.6 e8.8 e8.5 18 25 0.00 0.00 0.00 0.00 0.00  6.6 e8.8 e8.5 18 25 0.00 0.00 0.00 0.00 0.00  6.6 e8.8 e8.5 18 25 0.00 0.00 0.00 0.00 0.00  6.6 e8.8 e8.5 18 20 0.00 0.00 0.00 0.00 0.00 0.00  6.6 e8.8 e8.5 18 20 0.00 0.00 0.00 0.00 0.00 0.00 0.00  6.

e Estimated.

a No flow at times in most years.

b Present site and datum, from rating curve extended above 200 ft<sup>3</sup>/s, on basis of slope-area measurement of peak flow.

c Maximum gage height, 9.09 ft, Sep 10, 2003.

## 09371492 MUD CREEK AT HIGHWAY 32, NEAR CORTEZ, CO

 $LOCATION.--Lat~37^{\circ}18'46'', long~108^{\circ}39'38'', in~SW^{1}/_{4}SW^{1}/_{4}~sec.6, T.35~N., R.16~W., Montezuma~County, Hydrologic~Unit~14080202, on left bank~1~mi~upstream~from~mouth~and~4.5~mi~southwest~of~Cortez.$ 

DRAINAGE AREA.--33.6 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1981 to September 1986, August 1993 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09371492

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,765 ft above NGVD of 1929, from topographic map. Prior to Aug. 25, 1993, gage at present site and datum.

REMARKS.—Records good except for estimated daily discharges, which are poor. Some small diversions upstream from station for irrigation. Most of flow is from diversion of water from Dolores River through Dolores Project and Montezuma Valley Irrigation Company.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	20 20 22 19 11	0.56 0.58 0.63 0.58 0.54	0.61 0.63 0.62 0.58 0.59	0.75 e0.74 e0.73 e0.74 e0.73	e0.43 e0.42 0.44 e0.44 e0.44	0.95 0.82 1.6 1.7 1.1	0.54 0.65 2.7 2.3 2.2	3.8 4.7 4.0 3.3 5.4	14 13 11 11 12	23 21 19 18 18	7.0 8.8 14 13 12	16 15 16 26 32		
6 7 8 9 10	11 11 11 11 20	0.51 0.56 0.56 0.56 0.60	0.63 0.63 0.74 0.64 0.57	e0.71 e0.71 e0.67 0.60 0.54	e0.38 0.32 0.35 0.30 0.30	0.76 0.69 0.70 0.74 0.77	1.4 1.6 1.1 0.94 0.89	6.5 6.0 6.3 7.4 8.9	11 11 12 11 13	17 19 18 18	16 14 12 8.5 7.3	21 16 13 11 8.7		
11 12 13 14 15	24 21 19 10 9.7	0.62 0.55 1.1 0.65 0.62	e0.59 e0.58 0.57 e0.54 e0.53	e0.59 e0.58 e0.56 e0.59 e0.60	0.30 0.27 0.23 0.24 0.28	1.8 1.8 1.7 1.3 1.2	1.1 0.99 0.68 0.70 2.0	7.9 8.7 7.0 8.0 8.9	13 15 15 15 16	17 17 19 18 18	11 13 11 12 16	9.7 10 9.8 9.1 7.8		
16 17 18 19 20	1.7 0.83 0.67 0.63 0.57	0.62 0.63 0.63 0.62 0.63	e0.51 0.42 0.51 0.56 0.59	0.80 0.86 0.79 0.76 0.72	0.28 0.31 e0.37 e0.42 e0.69	0.60 0.56 0.56 0.54 0.52	1.5 1.6 1.8 1.4 1.4	8.5 9.0 16 15 14	16 15 16 15	18 19 20 22 21	18 21 19 20 25	7.4 8.3 9.9 13 38		
21 22 23 24 25	0.55 0.52 0.56 0.55 0.49	0.63 0.63 0.55 0.50 0.62	0.68 e0.61 e0.57 e0.56 e0.56	0.71 e0.69 e0.69 e0.69 e0.62	1.2 1.8 1.6 2.4 2.2	0.56 0.58 0.59 0.56 0.54	1.4 2.0 1.7 2.4 1.6	11 9.4 8.9 9.2	14 17 17 15 15	19 18 22 24 23	21 20 19 17 15	32 29 22 16 15		
26 27 28 29 30 31	0.50 0.54 0.56 0.57 0.59 0.55	0.64 0.53 0.48 0.52 0.57	e0.56 e0.55 e0.57 e0.57 0.72 0.78	e0.57 e0.48 0.38 0.41 0.45 e0.42	1.9 1.6 2.3 1.3	0.55 0.54 0.51 0.42 0.45 0.50	1.3 1.1 1.1 1.6 2.9	12 11 13 13 15 14	16 17 19 24 26	24 16 13 9.5 7.8 7.3	14 15 17 17 14 14	14 14 13 22 31		
TOTAL MEAN MAX MIN AC-FT	250.08 8.07 24 0.49 496	18.02 0.60 1.1 0.48 36	18.37 0.59 0.78 0.42 36	19.88 0.64 0.86 0.38 39	23.51 0.81 2.4 0.23 47	26.21 0.85 1.8 0.42 52	44.59 1.49 2.9 0.54 88	286.8 9.25 16 3.3 569	449 15.0 26 11 891	561.6 18.1 24 7.3 1,110	461.6 14.9 25 7.0 916	505.7 16.9 38 7.4 1,000		
							VATER YEAR	` ′	12.6	140	15.0	12.2		
MEAN MAX (WY) MIN (WY)	7.96 17.5 (1994) 0.96 (2003)	2.73 5.94 (1994) 0.60 (2004)	2.28 6.00 (1985) 0.47 (2000)	1.98 3.86 (1997) 0.64 (2004)	2.51 7.99 (1983) 0.81 (2004)	2.87 10.3 (1983) 0.85 (2004)	2.60 5.60 (1994) 0.79 (2003)	9.41 13.1 (1982) 5.44 (2003)	13.6 18.1 (1985) 6.83 (2002)	14.8 18.1 (2004) 9.95 (2002)	15.0 21.5 (1983) 4.04 (2002)	13.3 20.1 (2001) 1.12 (2002)		
SUMMAR	RY STATIST	TICS		FOR 2003 (	CALENDAR	YEAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 198	32 - 2004		
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS		М	7 4,71 1	6.16 6.51 7 Sep 0.42 Dec 0.52 Dec 0 8 1.5	17	5,29	0.23 Fel 0.27 Fel 19 Sej 2.92 Sej	20 213 210 220 220	a5 5,4	0.23 Fo 0.27 Fo 198 Au 8.53 Au	1985 2002 ep 10, 2003 eb 13, 2004 eb 10, 2004 ug 24, 1982 ug 24, 1982			
90 PERCE	ENT EXCEE	DS			0.57			0.52			0.97			

e Estimated

a From rating curve extended above 26 ft<sup>3</sup>/s, on basis of slope-area measurement of peak flow.

#### 09371520 McELMO CREEK ABOVE TRAIL CANYON, NEAR CORTEZ, CO

 $LOCATION.--Lat~37^{\circ}19'36", long~108^{\circ}42'00", in~NE^{\frac{1}{4}}AE^{\frac{1}{4}}, sec. 3, T.35~N., R.17~W., Montezuma~County, Hydrologic~Unit~14080202, on left bank adjacent to abandoned gravel pit 1.5 mi downstream from Mud~Creek, 1.9 mi upstream from Trail Canyon, and 5.5 mi south of Cortez.$ 

DRAINAGE AREA.--234 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1993 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=09371520

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,690 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. A few small diversions upstream from station. Most of flow comes from diversions through the Dolores Project and Montezuma Valley Irrigation Company (water imported from Dolores River Basin).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 9, 1927 at location 1.5 mi upstream was determined to be 5,560 ft<sup>3</sup>/s, gage height, 5.72 ft, site and datum then in use. Feb. 20, 1993, 890 ft<sup>3</sup>/s, gage height, 7.57 ft, present datum, on basis of slope-area measurement at site 1 mi upstream.

DISCHARGE, CUBIC FEET PER SECOND  WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  DAILY MEAN VALUES  DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP													
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
43 54 78 79 69	14 15 21 19 21	e12 16 16 e15 e14	e13 e13 e13 e13 e14	e12 e11 e12 e12 e11	27 23 27 37 28	6.0 6.1 25 53 47	23 22 17 15 16	40 41 34 37 38	57 46 41 43 42	47 48 48 44 44	56 50 48 121 221		
59 56 52 48 57	23 23 23 18 18	16 17 19 19 e16	e14 e14 e14 e14	e10 e8.7 e8.0 e8.4 e8.3	22 22 23 27 30	23 20 17 16 14	17 15 17 17 19	35 35 33 34 37	34 34 33 32 29	56 51 44 35 31	120 107 91 78 71		
75 58 52 53 55	20 17 34 29 22	e14 e13 e13 e13 e13	e14 e13 e13 e13	e8.3 8.3 e7.7 e8.0 e8.4	26 21 19 18 18	14 15 11 11 9.8	22 33 27 27 28	44 45 46 45 47	27 31 32 29 27	33 35 33 38 50	66 67 68 61 64		
54 36 25 22 20	19 21 20 17 17	e13 e14 e14 e14 e14	e13 e13 e13 e13 e13	e8.1 e7.7 e14 e22 e30	17 16 15 15	8.5 7.4 7.0 6.7 5.3	24 23 29 31 33	44 45 51 50 41	29 26 32 43 42	52 60 54 59 73	77 76 74 109 224		
16 15 14 14 12	17 18 e17 e13 e12	e13 e13 e13 e13	e13 e11 e12 e11 e12	29 33 32 29 37	15 14 14 14 14	6.6 9.6 11 13 11	34 27 21 25 27	41 44 48 43 41	36 33 46 68 62	69 72 61 52 50	186 152 112 90 80		
11 12 13 14 13 13	e12 e12 e11 e11 e12	e13 e13 e12 e13 e13	e11 e12 e12 e12 e12 e12	47 41 61 40	13 13 13 14 17 6.5	9.2 9.7 11 13 20	30 36 37 37 48 46	35 42 46 69 70	67 97 81 67 62 51	53 48 50 52 52 52 52	79 74 67 157 233		
1,192 38.5 79 11 2,360	546 18.2 34 11 1,080	437 14.1 19 12 867	397 12.8 14 11 787	572.9 19.8 61 7.7 1,140	592.5 19.1 37 6.5 1,180	436.9 14.6 53 5.3 867	823 26.5 48 15 1,630	1,301 43.4 70 33 2,580	1,379 44.5 97 26 2,740	1,546 49.9 73 31 3,070	3,079 103 233 48 6,110		
							, ,		<b>77.</b> 0	00 <b>=</b>	0.4.2		
MEAN 73.2 46.0 29 MAX 125 89.1 44 (WY) (1994) (1999) (199 MIN 13.6 14.5			29.4 58.8 (1997) 10.8 (2003)	33.7 62.5 (1994) 14.0 (2003)	35.4 87.4 (1995) 14.4 (2002)	27.5 82.8 (1997) 5.85 (2002)	52.1 83.0 (1998) 22.7 (2002)	66.8 100 (1997) 23.3 (2002)	75.8 108 (1997) 29.8 (2003)	89.7 125 (1995) 8.86 (2002)	94.2 126 (1997) 14.9 (2002)		
STATIST	ICS		FOR 2003 C	ALENDAR Y	/EAR	FOR 200	4 WATER Y	EAR	WATER	YEARS 199	3 - 2004		
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			28 976 4 6 20,780 50	3.7 6 Sep 4.4 Apr 1 6.5 Apr 1	28	23 31 24,4(	33.6 33 Sep 5.3 Api 7.3 Api 10 Sep 54.32 Sep 567	20 16 30	b1,7 39,	a2.7 No 3.1 No 790 Se d9.44 Se 350	1997 2002 p 10, 2003 v 21, 2002 v 20, 2002 p 10, 2003 p 10, 2003		
	43 54 78 79 69 59 56 52 48 57 75 58 52 23 55 54 36 25 22 20 16 15 14 14 12 11 12 13 14 13 14 13 13 1,192 38.5 79 11 2,360 S OF MON 73.2 125 (1994) 13.6 (2003) S STATIST OTAL MEAN UNDUAL M NUUAL M NUUAL M NUUAL M OAILY MEA EVEN-DA I PEAK ST UNOFF (A I PEAK ST I EVECEEI T EXCEEI T EXCEEI	43 14 54 15 78 21 79 19 69 21 59 23 56 23 52 23 48 18 57 18 75 20 58 17 52 34 53 29 55 22 54 19 36 21 25 20 22 17 20 17 16 17 15 18 14 e17 14 e13 12 e12 11 e12 12 e12 11 e12 11 e12 11 e12 11 e12 12 e12 13 e11 14 e11 13 e12 11 e12 13 e11 14 e11 13 e12 15 S46 38.5 18.2 79 34 11 11 11 2,360 1,080 S OF MONTHLY MEAN AILY MEAN AIL	43	OCT NOV DEC JAN  43	OCT NOV DEC JAN FEB  43 14 e12 e13 e12 54 15 16 e13 e11 78 21 16 e13 e12 79 19 e15 e13 e12 59 23 16 e14 e14 e11 59 23 17 e14 e8.7 52 23 19 e14 e8.0 48 18 19 e14 e8.4 57 18 e16 e13 e13 e12 57 18 e16 e14 e10 58 27 18 e16 e14 e8.3 57 18 e16 e14 e14 e8.3 58 17 e13 e13 e8.4 57 18 e16 e14 e14 e8.3 58 17 e13 e13 e8.0 58 17 e13 e13 e8.0 59 20 e14 e14 e14 e8.3 51 e13 e13 e3	OCT NOV DEC JAN FEB MAR  43 14 e12 e13 e11 23 54 15 16 e13 e11 23 78 21 16 e13 e12 27 79 19 e15 e13 e12 27 69 21 e14 e14 e11 28 59 23 16 e14 e10 22 52 23 19 e14 e8.0 23 48 18 19 e14 e8.0 23 48 18 18 19 e14 e8.4 27 57 18 e16 e14 e8.3 30 75 20 e14 e14 e8.3 30 75 20 e14 e14 e8.3 26 58 17 e13 e13 e13 e3 29 52 34 e13 e13 e8.0 18 55 22 43 e13 e13 e8.0 18 55 22 e13 e13 e3 e3 29 13 e13 e8.0 18 54 19 e13 e13 e8.1 17 36 21 e14 e13 e7.7 16 25 20 e14 e13 e13 e7.7 16 26 21 e14 e13 e7.7 16 27 e15 e15 e15 e15 e15 e15 18 e16 e17 e13 e13 e22 15 15 18 e13 e14 e13 e22 15 15 18 e13 e14 e13 e22 15 15 18 e13 e14 e13 e22 15 15 18 e13 e11 33 14 16 17 e13 e13 e3 29 15 15 18 e13 e11 33 14 16 e17 e13 e13 e12 22 15 17 e14 e13 e22 15 18 e13 e11 29 14 11 e12 e12 e13 e12 37 14 11 e12 e13 e12 41 13 13 e11 e12 e13 e12 e13 e12 41 13 e12 e13 e12 e13 e12 e13 e12 e14 13 e12 e13 e12 e13 e12 e15 38.5 18.2 14.1 12.8 19.8 19.1 19 e14 e13 e13 e12 e14 11 e12 e13 e12 e13 e12 e15 11 e12 e12 e13 e12 e13 e12 e15 11 e12 e13 e12 e13 e12 e15 11 e14 e11 e13 e12 e13 e12 e15 11 e14 e11 e13 e12 e12 e13 e12 e13 13 e11 e12 e13 e12 e13 e12 e13 14 e11 e13 e12 e13 e12 e13 e12 e14 15 e15 e15 e15 e15 e15 e15 e15 e15 e15 e	OCT NOV DEC JAN FEB MAR APR  43 14 e12 e13 e12 27 6.0 54 15 16 e13 e11 23 6.1 78 21 16 e13 e12 27 25 79 19 e15 e13 e12 27 53 69 21 e14 e14 e14 e11 28 47 59 23 16 e14 e8.7 22 20 56 23 17 e14 e8.0 23 17 48 18 19 e14 e8.4 27 16 57 18 e16 e14 e8.3 30 14 58 17 e13 e13 e8.3 21 15 57 18 e16 e14 e8.3 30 14 58 17 e13 e13 e8.3 21 15 59 20 e14 e14 e8.3 26 14 58 17 e13 e13 e8.0 18 11 57 18 e16 e14 e8.3 26 14 58 17 e13 e13 e8.0 18 11 55 20 e14 e14 e18 e8.3 26 14 58 17 e13 e13 e8.0 18 11 55 20 e14 e14 e13 e8.0 18 11 55 22 e13 e13 e8.0 18 11 51 22 e13 e13 e8.0 18 11 51 15 5 22 e13 e13 e8.0 18 11 51 15 18 e13 e13 e22 15 6.7 20 e14 e14 e13 e7.7 16 7.4 22 17 e14 e13 e22 15 6.7 20 17 e14 e13 e13 e22 15 6.7 20 17 e14 e13 e13 13 14 9.6 21 e12 e13 e12 40 14 13 9.7 21 e12 e12 e13 e12 40 14 13 9.7 21 e12 e12 e13 e12 40 14 13 9.7 21 e12 e12 e13 e12 40 14 13 9.7 21 e12 e13 e12 40 14 13 9.7 21 e14 e11 e13 e12 40 14 13 9.7 21 e12 e13 e12 40 14 13 9.7 21 e14 e13 e12 40 14 13 9.7 21 e15 89.1 42.9 58.8 62.5 87.4 82.8 (1994) (1995) (1997) (1999) (199	OCT NOV DEC JAN FEB MAR APR MAY  43 14 e12 e13 e11 27 6.0 23 54 15 16 e13 e12 27 6.0 23 54 15 16 e13 e12 27 23 6.1 22 79 19 e15 e13 e12 27 25 17 79 19 e15 e13 e12 27 25 17 69 21 e14 e14 e11 28 47 16 59 23 16 e14 e14 e11 28 47 16 55 23 17 e14 e8.7 22 20 15 56 23 17 e14 e8.0 23 17 17 57 18 e16 e14 e8.0 23 17 17 57 18 e16 e14 e8.3 30 14 19 75 20 e14 e14 e8.3 30 14 19 75 20 e14 e14 e8.3 30 14 19 75 20 e14 e14 e8.3 26 14 22 58 17 e13 e13 83 21 15 33 52 34 e13 e13 e8.4 18 9 e14 55 22 e13 e13 e13 e8.4 18 9.8 28 56 21 e14 e14 e13 e7.7 19 11 27 57 18 e16 e13 e13 e8.1 17 58 17 e13 e13 e8.4 18 9.8 28 54 19 e13 e13 e8.4 18 9.8 28 55 22 e13 e13 e13 e8.4 18 9.8 28 56 21 e14 e14 e13 e7.7 16 7.4 23 25 20 e14 e14 e13 e7.7 16 7.4 23 26 27 17 e14 e13 e13 e13 e8.1 17 27 55 20 e14 e14 e13 e7.7 16 7.4 23 28 54 19 e13 e13 e8.1 17 8.5 24 36 21 e14 e14 e13 e22 15 6.7 31 36 21 e14 e13 e13 e13 e8.1 17 27 31 e14 e13 e13 e13 e22 15 6.7 31 31 e14 e17 e13 e13 e13 e22 15 6.7 31 31 e17 e14 e13 e13 e13 e22 15 6.7 31 31 e17 e14 e13 e13 e13 e22 15 6.7 31 31 e17 e14 e13 e13 e13 e22 15 6.7 31 31 e17 e18 e13 e11 33 14 9.6 27 31 e14 e17 e13 e13 e13 e22 15 6.7 31 31 e17 e14 e13 e12 32 14 11 27 31 e12 e12 e13 e11 33 14 9.6 27 31 e14 e17 e13 e13 e13 e22 15 6.6 34 38.5 18.2 14.1 12.8 19.8 19.1 14.6 26.5 38.5	OCT	NOTE   NOV   DEC   JAN   FEB   MAR   APR   MAY   JUN   JUL	Not   Dally   Mark   Value   Value		

e Estimated.

Also occurred Nov 22, 2002.

Based on slope area measurement of peak flow.
c Maximum gage height, 7.06 ft, Feb 1, backwater from ice.
d From floodmarks.

#### 09372000 McELMO CREEK NEAR COLORADO-UTAH STATE LINE

 $LOCATION.--Lat~37^{\circ}19'27'', long~109^{\circ}00'54'', in~NE^{1}_{4}~sec.2,~T.35~N.,~R.20~W.,~Montezuma~County,~Hydrologic~Unit~14080202,~on~right~bank~1.5~mi~upstream~from~Colorado-Utah~State~line,~2.0~mi~upstream~from~Yellowjacket~Creek,~and~2.0~mi~west~of~former~town~of~McElmo.$ 

DRAINAGE AREA.--346 mi<sup>2</sup>.

PERIOD OF RECORD.--March 1951 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/ ?site\_no=09372000

REVISED RECORDS.--WSP 1925: 1951-52 (M), 1957 (M). WRD CO-1972: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 4,890 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 1,780 acres upstream from station. One diversion upstream from station for irrigation of about 60 acres downstream from station. Part of flow is return water from irrigated lands of Montezuma Irrigation District (water imported from Dolores River Basin).

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES  DAY OCT NOV DEC IAN FER MAR APR MAY IUN IUL AUG SEP													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	27 30 49 72 73	12 12 12 13 13	e12 e16 16 15 14	e11 e11 e11 e11	9.5 8.4 e9.4 e9.3 8.5	43 40 37 35 34	9.0 9.5 14 52 49	2.4 2.0 1.8 1.5 1.3	23 22 21 21 20	47 36 28 27 29	43 42 40 36 34	37 39 36 104 199		
6 7 8 9 10	62 57 52 47 140	14 14 15 16 17	16 15 16 16 13	e11 e11 e12 e12 e11	7.6 e7.2 e6.8 e7.1 e7.0	33 31 29 27 27	43 33 28 24 21	1.3 1.4 1.5 1.5 1.2	17 12 10 8.5 10	27 22 21 21 23	40 43 35 24 19	130 107 94 83 74		
11 12 13 14 15	110 72 62 58 56	17 18 18 21 23	11 e11 e11 e10 e10	e11 e11 e11 e11	e6.9 e6.9 e6.6 e6.7 e7.0	27 26 26 24 23	20 22 19 15 12	1.1 1.4 3.7 2.1 3.1	14 15 23 25 23	22 24 23 20 21	17 18 16 16 21	70 69 65 55 52		
16 17 18 19 20	55 50 38 21 21	22 20 21 21 21	10 11 e11 e11 e11	e10 e10 e10 e11	e6.7 e6.3 15 23 31	22 21 19 18 17	12 10 8.2 5.5 3.9	2.7 1.9 2.7 4.1 4.0	19 16 19 24 23	22 21 19 27 32	28 31 35 37 44	60 68 64 94 184		
21 22 23 24 25	20 19 18 16 14	20 19 17 13 e12	e11 e11 e11 e11	10 7.8 9.5 e8.9 e8.9	31 35 39 39 38	16 16 16 16 16	3.4 3.3 3.4 3.3 3.1	5.1 6.2 6.8 5.4 4.8	20 21 20 22 21	31 24 26 49 56	51 51 44 34 35	184 149 118 99 83		
26 27 28 29 30 31	13 13 12 12 13 13	e12 e11 e11 e12 e11	e10 e10 9.7 e10 e10 e11	8.6 9.1 e9.6 e9.3 e9.4 e9.7	41 43 50 53	16 16 14 12 15	2.8 2.1 1.6 1.8 1.8	6.7 11 17 17 18 23	16 19 23 40 56	53 68 70 59 53 50	38 41 35 42 38 37	83 80 70 110 228		
TOTAL MEAN MAX MIN AC-FT	1,315 42.4 140 12 2,610	478 15.9 23 11 948	371.7 12.0 16 9.7 737	319.8 10.3 12 7.8 634	565.9 19.5 53 6.3 1,120	724 23.4 43 12 1,440	436.7 14.6 52 1.6 866	163.7 5.28 23 1.1 325	623.5 20.8 56 8.5 1,240	1,051 33.9 70 19 2,080	1,065 34.4 51 16 2,110	2,888 96.3 228 36 5,730		
							/ATER YEAI 38.8	, ,	52.9	51.7	64.1	62.5		
MAX (WY) MIN (WY)	WY) (1973) (1988) (1966) IIN 1.84 14.0 12.0			32.6 68.4 (1969) 10.3 (2004)	46.5 192 (1993) 14.6 (2003)	55.8 197 (1973) 15.7 (1951)	38.8 148 (1973) 2.23 (1977)	44.8 108 (1992) 2.30 (2003)	32.9 105 (1969) 2.60 (1977)	51.7 132 (1957) 1.19 (1951)	64.1 160 (1967) 2.45 (2002)	62.5 226 (1986) 0.43 (1956)		
SUMMAI	RY STATIST	TCS		FOR 2003 C	CALENDAR '	YEAR	FOR 200	04 WATER Y	EAR	WATER	YEARS 195	1 - 2004		
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE		M	e1,010 (	) Sep 0.46 May 0.66 Apr	3	22	27.3  28 Sep 1.1 May 1.3 May 09 Oc 4.75 Oc		a3,0	0.08 Se 0.14 Se 040 Au 0,c7.58 Au	1973 1977 19 7, 1967 19 9, 1977 19 21, 1956 19 7, 1967 19 7, 1967			
				16,140 43 13	3		1	40 57 18 6.3		36,3	96 37 12			

Estimated.

From rating curve extended above 2100 ft<sup>3</sup>/s.

b From floodmark in gage well.
c Maximum gage height, 8.21 ft, Sep 21, 1997.

## 364 TRANSMOUNTAIN DIVERSIONS FROM COLORADO RIVER BASIN IN COLORADO THAT ARE NO LONGER PUBLISHED

Following is a list of Transmountain Diversions no longer being published in this report. Diversions, in acre-feet, for these sites are available from the State of Colorado, Division of Water Resources.

TO PLATTE RIVER BASIN		TO ARKA	NSAS RIVER BASIN	TO RIO GRANDE RIVER BASIN			
09010000 09012000 09013000 09021500 09022500 09046000 09047300 09050590	Eureka Ditch Alva B. Adams Tunnel Berthoud Pass Ditch Moffat Water Tunnel Boreas Pass Ditch Vidler Tunnel	09042000 09061500 09062500 09063700 09073000 09077160 09077500 09115000	Hoosier Pass Tunnel Columbine Ditch Wurtz Ditch Homestake Tunnel Twin Lakes Tunnel Charles H. Boustead Tunnel Busk-Ivanhoe Tunnel Larkspur Ditch	09347000 09348000	Tarbell Ditch Tabor Ditch Treasure Pass Ditch Don LaFont Ditches 1 & 2 Williams Creek Squaw Pass Ditch Pine River-Weminuche Pass Ditch Weminuche Pass		

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in three tables. The first is a table of discharge measurements at low-flow partial-record stations, the second is a table of annual maximum stage and discharge at crest-stage stations, and the third is a table of discharge measurements at special study and miscellaneous sites.

## LOW-FLOW PARTIAL-RECORD STATIONS

Measurements of streamflow in the area covered by this report made at low-flow, partial-record stations are given in the following table. Most of these measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream where continuous records are available, will give a picture of the low-flow potentiality of the stream. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site.

## DISCHARGE MEASUREMENTS MADE AT LOW-FLOW PARTIAL-RECORD STATIONS DURING WATER YEAR 2004

Station no	Station name	Location	Drainage area (mi <sup>2</sup> )	Period of record	Date	Discharge (ft <sup>3</sup> /s)
		COLORADO	O RIVER BASIN			
		Piney :	River Basin			
*09058900	Moniger Creek near Minturn, CO	Lat 39°43'37", long 106°28'50", in Eagle County, on left bank 1.5 mi upstream from mouth, 7.5 mi north of Mintum (discontinued September 2004).	0.76	1965-2004	5-26-04 6-23-04 7-27-04	2.15 0.62 0.08

<sup>\*</sup>Also a crest-stage partial-record station. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09058900

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or flood-flow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at crest-stage partial-record stations are presented in the following table. Discharge measurements made at low-flow partial-record sites and at miscellaneous sites and for special studies are given in separate tables.

#### CREST-STAGE PARTIAL-RECORD STATIONS

The following table contains annual maximum discharge for crest-stage stations. A crest-stage gage is a device that will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

#### MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS

			Water	Water year 2004 maximum			Period of record maximum			
Station name and number	Location and drainage area	Period of record	Date	Gage height (ft)	Discharge (ft <sup>3</sup> /s)	Date	Gage height (ft)	Discharge (ft <sup>3</sup> /s)		
PLATTE RIVER BASIN										
Lee Gulch at Littleton, CO (06709740)	Lat 39°35'47", long 105°00'57", in SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> sec.21, T.5 S., R.68 W., Arapahoe County, on right bank 30 ft upstream from culvert under Prince St. and 0.6 mi upstream from mouth in Littleton. Drainage area not determined.	1980-2004	8-18-04	11.41	129	a1983	16.00	444		
Dutch Creek at Platte Canyon Drive, near Littleton, CO (06709910)	Lat 39°36′01", long 105°02′28", in NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> sec.19, T.5 S., R.69 W., Arapahoe County, on left bank 150 ft downstream from bridge on Platte Canyon Road. Drainage area not determined.	1985-2004	8-18-04	11.31	239	6-01-91	11.51	1,090		
Little Dry Creek near Arapahoe Road, CO (06711515)	Lat 39°35′38", long 104°54′23", in NE¹/₄NE¹/₄ sec.29, T.5 S., R.67 W., Arapahoe County, on right bank, 80 (formerly published as Inflow to 0 ft downstream from Quebec St. Holly Reservoir, 1985-86). Drainage area not determined.	1985-2004	8-18-04	9.29	365	a1985	10.52	800		
Willow Creek at Dry Creek Road, near Englewood, CO (06711535)	Lat 39°34'49", long 104°54'42", in NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> sec.32, T.5 S., R.67 W., Arapahoe County, on left bank, upstream wingwall of bridge on Dry Creek Road over Willow Creek. Drainage area not determined.	1985-2004	8-18-04	12.99	1,850	a1985	14.28	3,470		
Little Dry Creek above Englewood, CO (06711555)	Lat 39°38'57", long 104°58'42", in SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> sec. 3, T.5 S., R.68 W., Arapahoe County, on right bank 250 ft downstream from bridge on Clarkson St., and 800 ft south of Hampton Ave., in Cherry Hills Village. Drainage area not determined. Prior to April 2, 1992, gage was located at a site 300 ft upstream from the present location.	1982-2004	8-18-04	8.11	602	a1983	15.64	1,060		
Harvard Gulch at Colorado Blvd., at Denver, CO (06711570)	Lat 39°40'08", long 104°56'32", in SE¹/ <sub>4</sub> SE¹/ <sub>4</sub> sec.25, T.4 S., R.67 W., Denver County, on left bank, 100 ft upstream from S. Jackson St., and 400 ft north of E. Yale Ave. Drainage area not determined.	1979-2004			Not determined	7-08-01	13.98	1,100		
Harvard Gulch at Harvard Park at Denver, CO (06711575)	Lat 39°40'21", long 104°58'35", in NW¹/ <sub>4</sub> SW¹/ <sub>4</sub> sec.26, T.4 S., R.68 W., Denver County, on left bank, 200 ft north of E. Harvard Ave. and 300 ft west of S. Ogden St., directly north of Porter Hospital. Drainage area not determined.	1979-2004	06-18-04	13.56	249	7-12-96	16.25	1,100		

## MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS--Continued

			Water year 2004 maximum				Period of record maximum			
Station name and number	Location and drainage area	Period of record	Date	Gage height (ft)	Discharge (ft <sup>3</sup> /s)	Date	Gage height (ft)	Discharge (ft <sup>3</sup> /s)		
		PLATTE RIVE	R BASINCo	ntinued						
Weir Gulch upstream from 1st Avenue, at Denver, CO (06711618)	Lat 39°43'03", long 105°02'30", in $NW^{1}_{4}SE^{1}_{4}$ sec.7, T.4 S., R.68 W., Denver County, 250 ft upstream from 1st Ave., in Denver. Drainage area not determined.	1985-2004	8-18-04	10.06	120	8-01-91	11.91	523		
Dry Gulch at Denver, CO (06711770)	Lat 39°44'03", long 105°02'20", in $SW^1/_4NE^1/_4$ sec.6, T.4 S., R.68 W., Denver County, 800 ft upstream from confluence with Lakewood Gulch, north of West 10th Ave., at Perry St., in Denver. Drainage area not determined.	1980-2004	8-18-04	12.13	167	a1981	16.00	445		
Lakewood Gulch at Denver, CO (06711780)	Lat 39°44'06", long 105°01'54", in SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> sec.5, T.4 S., R.68 W., Denver County, 2,000 ft downstream from confluence with Dry Gulch, near intersection of Knox Ct., and West 12th Ave., in Denver. REVISED RECORDSWDR CO-02-1: 2001(M). Drainage area not determined.	1980-2004	6-27-04	14.76	745	8-19-98	14.80	1,180		
Westerly Creek at Aurora, CO (06714260)	Lat 39°44'43", long 104°52'48", in NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> sec.34, T.3 S., R.67 W., Adams County, 50 ft upstream from footbridge, 800 ft upstream from Montview Blvd., and 100 ft east of Boston St., in Aurora. REVISED RECORDSWDR CO-90-1: 1983-85, 1987-88. Drainage area not determined.	1982-2004	8-18-04	12.73	604	a1983	14.45	1,530		
Lena Gulch at Lakewood, CO (06719560)	Lat 39°44'27", long 105°08'49", in SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> sec.31, T.3 S., R.69 W., Jefferson County, on right bank 200 ft north of West 15th Drive at Arbutus. Prior to July 6, 1988, at site approx. 500 ft downstream (formerly published as Lena Gulch at Alkire at Golden, CO, 1986-87). Drainage area is approximately 9.0 mi <sup>2</sup> .	1974-79 1986-2004	6-27-04	13.13	407	7-20-75	14.41	641		
Little Dry Creek at Westminster, CO (06719840)	Lat 39°49'34", long 105°02'25", in NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> sec. 6, T. 3 S., R. 68 W., Adams County, 400 ft downstream from 72nd Ave. in Westminster. REVISED RECORDSWDR CO-89-1: 1986. Drainage area not determined.	1982-2004	8-18-04	11.32	347	6-01-91	13.09	1,280		
		ARKANSA	S RIVER BA	SIN						
Red Creek below Sullivan Park at Fort Carson, CO (07099080)	Lat 38°29'59", long $104°54'48$ ", in $SE^{1}_{4}NW^{1}_{4}$ sec.8, T.18 S., R.67 W., Pueblo County, Hydrologic Unit 11020002, on Fort Carson Military Reservation, on right bank 0.8 mi downstream from Sullivan Park outflow, 1.5 mi south of Camp Red Devil, 1.5 mi east of State Highway 115, and 4.9 mi northeast of Penrose. Drainage area is 26.6 mi <sup>2</sup> .	2000-2003b 2004	9-22-04	2.83	0.57	8-08-03	5.81	2,320		
Kettle Creek above U.S. Air Force Academy, CO (07103960)	Lat 38°58'34", long $104°47'55$ ", in $NW^1_4SE^1_4$ sec.29, T.12 S., R.66 W., El Paso County, Hydrologic Unit 11020003, on right bank 10 ft downstream from State Highway 83, 0.5 mi upstream from flood-retention dam, 0.6 mi east of Interstate 25, 2.7 mi upstream from mouth, and 5.4 mi southeast of U.S. Air Force Academy Chapel. Drainage area is $16.0 \text{ mi}^2$ .	2000-2003b 2004	8-04-04	6.19	270	8-04-04	6.19	270		

## MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS--Continued

			Water year 2004 maximum			Period of record maximum		
Station name and number	Location and drainage area	Period of record	Date	Gage height (ft)	Discharge (ft <sup>3</sup> /s)	Date	Gage height (ft)	Discharge (ft <sup>3</sup> /s)
	ARK	ANSAS RIVER	BASINCont	` '			. ,	
Cottonwood Creek at Cowpoke Road at Colorado Springs, CO (07103977)	Lat 38°57'04", long 104°42'47", in SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> sec.6, T.13 S., R.65 W., El Paso County, Hydrologic Unit 11020003, on right bank (revised) 10 ft downstream from Cowpoke Road bridge (revised) at Colorado Springs, 1.0 mi upstream from Woodmen Road, and 5.3 mi east of Interstate 25. Drainage area is 5.93 mi <sup>2</sup> .	1998-2002b 2003-2004			Unknown	6-23-99	6.25	230
Cottonwood Creek Tributary above Rangewood Drive at Colorado Springs, CO (07103985)	Lat $38^{\circ}5^{\circ}45^{\circ}$ , long $104^{\circ}44^{\prime}48^{\circ}$ , in $SE^{1}_{4}SW^{1}_{4}$ sec. 11, T.13 S., R.66 W., El Paso County, Hydrologic Unit 11020003, on right bank 400 ft upstream from Dublin Road at Colorado Springs, 0.2 mi upstream from Rangewood Drive, 0.5 mi upstream from mouth, and 3.2 mi east of Interstate 25. Drainage area is $2.81 \text{ mi}^{2}$ .	1998-2002b 2003-2004	6-27-04	8.44	2,010	7-13-01	8.76	2,960
North Rockrimmon Creek above Delmonico Dr. at Colorado Springs, CO (07104050)	Lat 38°54'56", long 104°49'35", in SW¹/₄NE¹/₄ sec.18, T.13 S., R.66 W., El Paso County, on both banks, 300 ft upstream from Delmonica Drive at Colorado Springs, 0.2 mi west of Interstate 25, 0.3 mi upstream from mouth, and 2.0 mi downstream from Woodmen Road. Drainage area 1.82 mi².	1998-2004	7-23-04	4.54	340	7-24-01	6.46	745
Bear Creek above 8th Street at Colorado Springs, CO	Lat $38^{\circ}49'09"$ , long $104^{\circ}50'44"$ , in $SW^{1}_{4}NW^{1}_{4}$ sec.24, T.14 S., R.67 W., El Paso County, Hydrologic Unit 11020003, on left bank 150 ft upstream from	2003-2004	7-16-04 8-31-03	10.38 2003 Peak 6.00	344 125	7-16-04	10.38	344
(384909104504401)	small right-bank tributary, 500 ft west of 8th Street at Colorado Springs, 0.3 mi southeast of Penrose Stadium, 0.6 mi west of Interstate 25, and 0.7 mi upstream from mouth. Drainage area is not determined.							
Big Arroyo near Thatcher, CO (07120620)	Lat 37°33'17", long 104°01'16", in NW¹/₄NW¹/₄ sec.4, T.29 S., R.59 W., Las Animas County, on Pinon Canyon Maneuver site, on left bank 30 ft upstream from bridge on Pipeline Road, 5.3 mi upstream from mouth, and 4.8 mi east of Thatcher. REVISED RECORDSWDR CO-97-1:1987 (M). Drainage area is 15.5 mi².	1983-90b 1991-2004	4-23-04	2.76	2.1	8-11-97	5.78	1,780
Big Sandy Creek above Amity Canal Diversion, near Kornman, CO (07134000)	Lat 38°12′52", long 102°28′47", in NE¹/4NW¹/4 sec.21, T.21 S., R.45 W., Prowers County, on left bank 106 ft upstream from Amity Canal Diversion 7.0 mi upstream from mouth, and 9.0 mi northeast of Kornman. Drainage area is 3,136 mi², of which about 585 mi² is probably noncontributing.	1941-46b 1996-2004	6-18-04	11.33	Not determined	5-04-99	14.00	3,580
		COLORADO R	RIVER BASIN					
		Piney Riv	er Basin					
*Moniger Creek near Minturn, CO (09058900)	Lat 39°43'37", long 106°28'50", near Minturn, in Eagle County, on left bank 1.5 mi upstream from mouth, 7.5 mi north of Minturn. Drainage area is 0.76 mi <sup>2</sup> (discontinued September 2004).	1965-2004	5-06-04	1.61	7.49	6-01-03	2.06	29.6

a-Month or day of occurrence is unknown or not exact. b-Previously operated as a continuous-record gaging station. c-At different datum.

<sup>\*</sup>Also a low-flow partial-record station. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=09058900

#### SPECIAL STUDY AND MISCELLANEOUS SITES

Discharge measurements in the following table were made at a miscellaneous site. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site\_no=07079195

### ${\tt DISCHARGE\ MEASUREMENTS\ MADE\ AT\ SPECIAL\ STUDY\ AND\ MISCELLANEOUS\ SITES\ DURING\ WATER\ YEAR\ 2004}$

#### ARKANSAS RIVER BASIN

Station no	Station name	Location and drainage area	Date	Discharge (ft <sup>3</sup> /s)
07079195	East Fork Arkansas River at	Lat 39°17'09", long 106°16'45",in $NW^{1}/_{4} NE^{1}/_{4}$ , sec.12, T.9	10-01-03	15
	Highway 91 near Leadville, CO	S., R.80 W. Lake County, Hydrologic Unit 11020001, on right	11-05-03	8.3
		bank, 20 ft upstream of State Highway 91, 1.6 mi north of	12-03-03	7.3
		Leadville. Drainage area is 35.0 mi <sup>2</sup> .	1-07-04	6.6
		· ·	2-05-04	5.4
			3-02-04	6.4
			4-07-04	7.6
			5-05-04	24
			6-02-04	75
			6-08-04	138
			7-07-04	49
			8-03-04	25
			9-01-04	12

$\mathbf{A}$	В
Animas River,	Bear Creek above 8th Street at Colorado Springs,
at Durango,	crest-stage partial record
surface-water record	Bear Creek near Colorado Springs,
at Silverton,	surface-water record
surface-water record	Bear Creek (South Platte River Basin),
below Silverton,	above Bear Creek Lake near Morrison,
surface-water record	surface-water record
Apishapa River near Fowler,	above Evergreen,
surface-water record	surface-water record
Arkansas River Basin,	at Morrison,
crest-stage partial-record stations in 367	surface-water record
Arkansas River Basin,	at mouth, at Sheridan,
surface-water records in	surface-water record
Arkansas River,	Beaver Creek at Avon,
above Pueblo,	surface-water record
surface-water record	Beaver Creek,
at Canon City,	above Highway 115 near Penrose,
surface-water record	surface-water record
at Catlin Dam near Fowler,	above Upper Beaver Cemetery near Penrose,
surface-water record	surface-water record
at Granite,	Bemrose-Hoosier Diversion near Hoosier Pass,
surface-water record	•
at La Junta,	surface-water record
surface-water record	Bent Canyon creek near Timpas,
at Lamar,	surface-water record
surface-water record	Big Arroyo near Thatcher,
at Las Animas,	crest-stage partial record
surface-water record	Big Dry Creek below C-470 at Highlands Ranch,
at Moffat Street at Pueblo,	surface-water record
surface-water record	Big Dry Creek,
at Parkdale,	at mouth near Fort Lupton,
surface-water record	surface-water record
at Portland,	at Westminster,
surface-water record	surface-water record 93
below Empire Gulch, near Malta,	Big Sandy Creek above Amity Canal Diversion,
surface-water record	near Kornman,
below Granite,	crest-stage partial record
surface-water record	Big Sandy Creek near Lamar,
below John Martin Reservoir,	surface-water record
surface-water record	Big Thompson River,
near Avondale,	at Loveland,
surface-water record	surface-water record 102
near Coolidge, KS,	at mouth of canyon near Drake,
surface-water record	surface-water record 101
near Granada,	below Moraine Park near Estes Park,
surface-water record	surface-water record
near Leadville,	Bighorn Creek near Minturn,
surface-water record	surface-water record
near Nathrop,	Black Gore Creek near Minturn,
surface-water record	surface-water record
near Wellsville,	Blue River Basin,
surface-water record 123	surface-water records in 223

Blue River,	at Golden,	
at Blue River,	surface-water record	91
surface-water record	near Lawson,	
below Dillon,	surface-water record 8	37
surface-water record	Closed Basin in San Luis Valley,	
below Green Mountain Reservoir,	surface-water records in	39
surface-water record	Closed Basin Project Canal near Alamosa,	
near Dillon,	surface-water record	92
surface-water record	Coal Creek near Louisville,	
Bobtail Creek near Jones Pass,	surface-water record	98
surface-water record	Cochetopa Creek below Rock Creek near Parlin,	
Booth Creek near Minturn,	surface-water record	)(
surface-water record	Colorado River Basin,	
Boulder Creek,	surface-water records in	) 1
at mouth near Longmont,	Colorado River Basin,	, ,
surface-water record	crest-stage partial-record station in	65
at North 75th Street near Boulder,	Colorado River,	,
surface-water record	at Windy Gap near Granby,	
	surface-water record	1 ^
C	below Baker Gulch near Grand Lake,	1 4
Cabin Creek near Fraser,	surface-water record	<b>^</b> 1
surface-water record		J
Cache la Poudre River,	below Glenwood Springs,	7,
above Box Elder Creek near Timnath,	surface-water record	1:
surface-water record 109	below Grand Valley Diversion near Palisade,	٦,
at Fort Collins,	surface-water record	/5
surface-water record	near Cameo,	
at mouth of canyon near Fort Collins,	surface-water record	/(
surface-water record	near CO-UT State line,	
Camp Creek at Garden of the Gods,	surface-water record	13
surface-water record	near Dotsero,	
Cement Creek at Silverton,	surface-water record	53
surface-water record	near Granby,	
Cherry Creek,	surface-water record	)2
at Denver,	near Kremmling	
surface-water record	surface-water record	35
below Cherry Creek Lake,	Conejos River,	
surface-water record	below Platoro Reservoir,	
near Franktown,	surface-water record	)4
surface-water record	near Lasauses,	
near Parker,	surface-water record	98
surface-water record	near Mogote,	
Cheyenne Creek at Evans Avenue at Colorado Springs,	surface-water record	95
surface-water record	Corral Gulch near Rangely,	
Chicago Creek below Devils Canyon near Idaho Springs,	surface-water record	43
surface-water record	Cottonwood Creek Tributary	
Cimarron River near Cimarron,	above Rangewood Drive at Colorado Springs,	
surface-water record	crest-stage partial record	58
Clear Creek,	Cottonwood Creek,	
above Georgetown Lake near Georgetown,	at Cowpoke Road at Colorado Springs,	
surface-water record	crest-stage partial record	58
above Johnson Gulch near Idaho Springs	at mouth at Pikeview,	
surface-water record	surface-water record	47
above West Fork Clear Creek near Empire,	at Woodmen Road near Colorado Springs,	
surface-water record	surface-water record	46

Cross Creek near Minturn,	near Minturn,
surface-water record	surface-water record
Crystal River above Avalanche Creek near Redstone,	East Fork Arkansas River at Highway 24 near Leadville,
surface-water-record	surface-water record
Crystal River below Carbondale,	East Fork Arkansas River at Highway 91 near Leadville,
surface-water record	discharge measurements
Culebra Creek at San Luis,	East Fork Eagle River near Climax,
surface-water record	surface-water record
	East Fork Terror Creek,
D	below Cottonwood Stomp near Bowie,
Dallas Creek near Ridgway,	surface-water record
surface-water record	East Meadow Creek near Minturn,
Darling Creek near Leal,	surface-water record
surface-water record	East Plum Creek below Haskins Gulch near Castle Rock,
Dickson Creek near Vail,	surface-water record
surface-water record	East River,
Dinero Mine Drainage Tunnel below Turquoise Lake	at Almont,
near Leadville,	surface-water record
surface-water record	below Cement Creek near Crested Butte,
Discharge at partial-record stations,	surface-water record
crest-stage gages	Elk Creek at upper station near Fraser,
miscellaneous sites, low flow 365	surface-water record
miscellaneous sites, special studies	Elk River near Milner,
Discontinued surface-water discharge or	surface-water record
stage only stations	Elkhead Creek,
Discontinued surface-water-quality stations 43–49	above Long Gulch near Hayden,
Divide Creek Basin,	surface-water record
surface-water records in	below Maynard Gulch near Craig,
Dolores River Basin,	surface-water record
surface-water records in	
Dolores River,	F
at Bedrock,	Fish Creek at upper station near Steamboat Springs,
surface-water record	surface-water record
at Dolores,	Fortification Creek near Fortification,
surface-water record	surface-water record
below Rico,	Fountain Creek,
surface-water record	at Colorado Springs,
near Bedrock,	surface-water record
surface-water record	at Green Mountain Falls,
Dry Fork at upper station near De Beque,	surface-water record
surface-water record	at Pueblo,
Dry Gulch at Denver,	surface-water record
crest-stage partial record	below Janitell Road below Colorado Springs,
Dutch Creek at Platte Canyon Drive, near Littleton,	surface-water record
crest-stage partial record	near at Security,
crest stage partial record	surface-water record
${f E}$	near Colorado Springs,
Eagle River,	surface-water record
at Red Cliff,	near Fountain,
surface-water record	surface-water record
below Gypsum,	near Pinon,
surface-water record	surface-water record
below Wastewater Treatment Plant at Avon,	Fourmile Creek above mouth near Deckers,
surface-water record	surface-water record
2011000	

Fourmile Creek below Cripple Creek near Victor,	Hubbard Creek,
surface-water record	at Highway 133 at mouth near Bowie,
Fraser River Basin,	surface-water record
surface-water records in	near Bowie,
Fraser River,	surface-water record
at upper station near Winter Park,	Huerfano River near Boone,
surface-water record	surface-water record
at Winter Park,	Hunter Creek near Aspen,
surface-water record	surface-water record
below Crooked Creek at Tabernash,	
surface-water record	I
Freeman Creek near Minturn,	Illinois River below Ish Baldwin Ditch near Walden,
surface-water record	surface-water record 52
French Gulch at Breckenridge,	Illinois River below Potter Creek near Walden,
surface-water record	surface-water record 53
Frontier Ditch near Coolidge, KS,	
surface-water record	J
Fryingpan River near Ruedi,	Jimmy Camp Creek at Fountain,
surface-water record	surface-water record
	Joe Wright Creek,
G	above Joe Wright Reservoir,
Gore Creek,	surface-water record
above Red Sandstone Creek at Vail,	below Joe Wright Reservoir,
surface-water record	surface-water record
at mouth near Minturn,	
surface-water record	K
at upper station near Minturn,	Kerber Creek above Little Kerber Creek,
surface-water record	near Villa Grove,
Green River Basin,	surface-water record
surface-water records in	Kettle Creek above U.S. Air Force Academy,
Gunnison River Basin,	crest-stage partial record
surface-water records in	Keystone Gulch near Dillon,
Gunnison River,	surface-water record
at Delta,	
surface-water record	L
below Gunnison Tunnel,	La Garita Creek near La Garita,
surface-water record	surface-water record
near Grand Junction,	La Plata River,
surface-water record	at CO-NM State line,
near Gunnison,	surface-water record
surface-water record	at Hesperus,
	surface-water record
Н	Lake Creek near Edwards,
Halfmoon Creek near Malta,	surface-water record
surface-water record	Lake Fork at Gateview,
Harvard Gulch at Colorado Blvd., at Denver,	surface-water record
crest-stage partial record 366	Lakes and reservoirs,
Harvard Gulch at Harvard Park at Denver,	Ruedi Reservoir
crest-stage partial record 366	Lakewood Gulch at Denver,
Homestake Creek,	crest-stage partial record
at Gold Park,	Leavenworth Creek at mouth near Georgetown,
surface-water record	surface-water record 83
near Red Cliff,	Lee Gulch at Littleton,
surface-water record	crest-stage partial record

Lena Gulch at Lakewood,	Monument Creek,
crest-stage partial record	above North Gate Boulevard at USAF Academy,
Lewis Wash near Grand Junction,	surface-water record
surface-water record	above Woodmen Road at Colorado Springs,
Little Dry Creek above Englewood,	surface-water record
crest-stage partial record	at Bijou Street at Colorado Springs,
Little Dry Creek at Westminster,	surface-water record
crest-stage partial record	at Pikeview,
Little Dry Creek near Arapahoe Road,	surface-water record
crest-stage partial record	Mosquito Creek near Alma,
Little Snake River,	surface-water record
near Lily,	Mud Creek at Highway 32 near Cortez,
surface-water record	surface-water record
near Slater,	Muddy Creek,
surface-water record	above Antelope Creek near Kremmling,
Lockwood Canyon Creek near Thatcher,	surface-water record
surface-water record	below Wolford Mountain Reservoir
Lonetree Creek near Greeley,	surface-water record
surface-water record	
Los Pinos River near Ortiz,	N
surface-water record	North Clear Creek above mouth near Blackhawk,
Los Pinos River,	surface-water record 90
at La Boca,	North Fork Cache la Poudre River,
surface-water record	at Livermore,
near Ignacio,	surface-water record
surface-water record	below Halligan Reservoir near Virginia Dale,
Lost Canyon Creek near Dolores,	surface-water record
surface-water record	North Fork Gunnison River,
	below Leroux Creek near Hotchkiss,
M	surface-water record
Mancos River near Towaoc,	below Paonia,
surface-water record	surface-water record
McCullough-Spruce-Crystal Diversion near Hoosier Pass,	near Somerset,
surface-water record	surface-water record
McElmo Creek,	North Fork South Platte River above Elk Creek at Pine,
above Trail Canyon near Cortez,	surface-water record
surface-water-record	North Monument Creek at Spring Street at Palmer Lake,
near CO-UT State line,	surface-water record
surface-water record	North Platte River near Northgate,
Michigan River near Cameron Pass,	surface-water record
surface-water record	North Rockrimmon Creek above Delmonico Drive
Middle Creek near Minturn,	at Colorado Springs,
surface-water record	crest-stage partial record
Mineral Creek at Silverton,	
surface-water record	0
Minnesota Creek near Paonia,	Ohio Creek above mouth near Gunnison,
surface-water record	surface-water record
Missouri Creek near Gold Park,	
surface-water record	P
Moniger Creek near Minturn,	Piceance Creek,
crest-stage partial record	at White River,
low-flow partial record	surface-water record
Monte Cristo Diversion near Hoosier Pass,	below Ryan Gulch near Rio Blanco,
surface-water record	surface-water record

Piedra River near Arboles,	near Lobatos,
surface-water record	surface-water record
Piney River Basin,	Roaring Fork River Basin,
surface-water records in	surface-water records in
Piney River,	Roaring Fork River,
below Piney Lake near Minturn,	above Difficult Creek near Aspen,
surface-water record	surface-water record
near State Bridge,	at Glenwood Springs,
surface-water record	surface-water record
Pitkin Creek near Minturn,	near Aspen,
surface-water record	surface-water record
Plateau Creek Basin,	near Emma,
surface-water records in	surface-water record
Plateau Creek,	Rock Creek above Fort Carson Reservation,
below Collbran,	surface-water record
surface-water record	contents of
near Cameo,	contents of
surface-water record	S
Platte River Basin,	Saguache Creek near Saguache,
crest-stage partial-record stations in 366	surface-water record
Plum Creek,	San Antonio River at Ortiz,
at Titan Road near Louviers,	surface-water record
surface-water record 67	San Juan River,
near Sedalia,	at Pagosa Springs,
surface-water record	surface-water record
Purgatoire River,	near Carracas,
at Madrid,	surface-water record 347
surface-water record	San Miguel River,
at Rock Crossing near Timpas,	at Brooks Bridge near Nucla,
surface-water record	surface-water record
below Trinidad Lake,	at Uravan,
surface-water record	surface-water record
near Las Animas,	near Placerville,
surface-water record 179	surface-water record
near Thatcher,	Sand Creek above mouth at Colorado Springs,
surface-water record	surface-water record
342400 (1414) 1414	Sand Creek at mouth near Commerce City,
R	surface-water record
Ranch Creek,	Slate River near Crested Butte,
below Meadow Creek near Tabernash,	surface-water record
surface-water record	Slater Fork near Slater,
near Fraser,	surface-water record
surface-water record	Snake River near Montezuma,
Red Creek below Sullivan Park at Fort Carson,	surface-water record
crest-stage partial record	South Fork Rio Grande at South Fork, surface-water record
Red Rock Canyon Creek at mouth near Thatcher,	South Fork Williams Fork near Leal
surface-water record	surface-water record
Red Sandstone Creek near Minturn,	South Platte River,
surface-water record	above Cheesman Lake,
Rio Grande,	surface-water record 57
near Del Norte,	at 64th Avenue, at Commerce City,
surface-water record	surface-water record

at Denver,	Tenmile Creek below North Tenmile Creek at Frisco,
surface-water record 80	surface-water record
at Englewood,	Terror Creek at mouth near Bowie,
surface-water record	surface-water record
at Fort Lupton,	Timpas Creek at mouth near Swink,
surface-water record	surface-water record 166
at Fort Morgan,	Tomichi Creek,
surface-water record	at Gunnison,
at Henderson,	surface-water record
surface-water record	at Sargents,
at Julesburg,	surface-water record
surface-water record	Transmountain diversions,
at South Platte.	no longer published 364
surface-water record	Trout Creek below Fern Creek near Westcreek,
below Brush Creek near Trumbell,	surface-water record
surface-water record	Turkey Creek (Platte River Basin),
below Cheesman Lake,	near Indian Hills,
surface-water record	surface-water record
below Union Ave.,	Turkey Creek East Seepage below Teller Reservoir
surface-water record 69	near Stone City,
	water-discharge records
near Kersey, surface-water record	Turkey Creek near Red Cliff,
	surface-water record
near Weldona,	Turkey Creek West Seepage below Teller Reservoir
surface-water record	near Stone City,
Spring Creek at La Boca,	water-discharge records
surface-water record	Turkey Creek,
St. Charles River at Vineland,	above Teller Reservoir near Stone City,
surface-water record	surface-water record
St. Louis Creek near Fraser,	near Fountain,
surface-water record	surface-water record
St. Vrain Creek below Longmont,	near Stone City,
surface-water record	surface-water record
Straight Creek below Laskey Gulch near Dillon,	
surface-water record	U
Surface Creek,	Uncompangre River,
at Cedaredge,	at Colona,
surface-water record	surface-water record
near Cedaredge,	at Delta,
surface-water record	surface-water record
	below Ridgway Reservoir,
T	surface-water record
Tarryall Creek at upper station near Como,	near Ouray,
surface-water record	surface-water record
Taylor Arroyo below Rock Crossing near Thatcher,	near Ridgway,
surface-water record	surface-water record
Гaylor River,	Ute Creek near Fort Garland,
at Almont,	surface-water record
surface-water record	
at Taylor Park,	V
surface-water record	Vallecito Creek near Bayfield,
below Taylor Park Reservoir,	surface-water record
surface-water record	Van Bremer Arroyo,
Teller Reservoir Spillway near Stone City,	near Model,
surface-water record	surface-water record

Wild Horse Creek above Holly,
surface-water record
Williams Fork (tributary to Colorado River),
above Darling Creek near Leal,
surface-water record
below Steelman Creek,
surface-water record
below Williams Fork Reservoir,
surface-water record
near Leal,
surface-water record
near Parshall,
surface-water record
Williams Fork Basin,
surface-water records in
Willow Creek at Dry Creek Road, near Englewood,
crest-stage partial record
Y
f v
<del>-</del>
Yampa River,
Yampa River, above Elkhead Creek near Hayden,
Yampa River, above Elkhead Creek near Hayden, surface-water record
Yampa River, above Elkhead Creek near Hayden, surface-water record
Yampa River, above Elkhead Creek near Hayden, surface-water record
Yampa River, above Elkhead Creek near Hayden, surface-water record
Yampa River, above Elkhead Creek near Hayden, surface-water record 327 above Stagecoach Reservoir, surface-water record 322 at Deerlodge Park, surface-water record 336
Yampa River, above Elkhead Creek near Hayden, surface-water record
Yampa River, above Elkhead Creek near Hayden, surface-water record
Yampa River, above Elkhead Creek near Hayden, surface-water record
Yampa River, above Elkhead Creek near Hayden, surface-water record
Yampa River, above Elkhead Creek near Hayden, surface-water record
Yampa River, above Elkhead Creek near Hayden, surface-water record
Yampa River, above Elkhead Creek near Hayden, surface-water record
Yampa River, above Elkhead Creek near Hayden, surface-water record

# **Calendar for Water Year 2004**

2003

		0	ctobe	er					No	veml	oer					D	ecem	ber		
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	М	Т	W	Т	F	S
			1	2	3	4							1		1	2	3	4	5	6
5	6	7	8	9	10	11	2	3	4	5	6	7	8	7	8	9	10	11	12	13
12	13	14	15	16	17	18	9	10	11	12	13	14	15	14	15	16	17	18	19	20
19	20	21	22	23	24	25	16	17	18	19	20	21	22	21	22	23	24	25	26	27
26	27	28	29	30	31		23	24	25	26	27	28	29	28	29	30	31			
							30													
										2004	1									
		Ja	anuar	у					Fe	brua	ry					ľ	Marcl	h		
S	M	Т	W	T	F	S	S	M	Т	W	T	F	S	S	M	T	W	T	F	S
				1	2	3	1	2	3	4	5	6	7		1	2	3	4	5	6
4	5	6	7	8	9	10	8	9	10	11	12	13	14	7	8	9	10	11	12	13
11	12	13	14	15	16	17	15	16	17	18	19	20	21	14	15	16	17	18	19	20
18	19	20	21	22	23	24	22	23	24	25	26	27	28	21	22	23	24	25	26	27
25	26	27	28	29	30	31	29							28	29	30	31			
			April						ı	May						J	une			
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
				1	2	3							1			1	2	3	4	5
4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12
11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19
18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26
25	26	27	28	29	30		23	24	25	26	27	28	29	27	28	29	30			
							30	31												
			July						A	ugust	t					Sep	temb	er		
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
				1	2	3	1	2	3	4	5	6	7				1	2	3	4
4	5	6	7	8	9	10	8	9	10	11	12	13	14	5	6	7	8	9	10	11
11	12	13	14	15	16	17	15	16	17	18	19	20	21	12	13	14	15	16	17	18
18	19	20	21	22	23	24	22	23	24	25	26	27	28	19	20	21	22	23	24	25
25	26	27	28	29	30	31	29	30	31					26	27	28	29	30		

## **Conversion Factors**

Multiply	Ву	To obtain
	Length	
inch (in.)	2.54x10 <sup>1</sup>	millimeter (mm)
	2.54x10 <sup>-2</sup>	meter (m)
foot (ft)	3.048×10 <sup>-1</sup>	meter (m)
mile (mi)	1.609x10 <sup>0</sup>	kilometer (km)
	Area	
acre	4.047x10 <sup>3</sup>	square meter (m²)
	4.047×10 <sup>-1</sup>	square hectometer (hm²)
	4.047x10 <sup>-3</sup>	square kilometer (km²)
square mile (mi <sup>2</sup> )	2.590x10 <sup>0</sup>	square kilometer (km²)
	Volume	
gallon (gal)	3.785x10 <sup>0</sup>	liter (L)
	3.785x10 <sup>-3</sup>	cubic meter (m³)
	3.785x10 <sup>0</sup>	cubic decimeter (dm³)
million gallons (Mgal)	3.785x10 <sup>3</sup>	cubic meter (m³)
	3.785x10 <sup>-3</sup>	cubic hectometer (hm³)
cubic foot (ft <sup>3</sup> )	2.832x10 <sup>-2</sup>	cubic meter (m³)
	2.832x10 <sup>1</sup>	cubic decimeter (dm³)
cubic-foot-per-second day [(ft <sup>3</sup> /s) d]	2.447x10 <sup>3</sup>	cubic meter (m³)
	2.447x10 <sup>-3</sup>	cubic hectometer (hm³)
acre-foot (acre-ft)	1.233x10 <sup>3</sup>	cubic meter (m³)
	1.233x10 <sup>-3</sup>	cubic hectometer (hm³)
	1.233x10 <sup>-6</sup>	cubic kilometer (km³)
	Flow	
cubic foot per second (ft <sup>3</sup> /s)	2.832x10 <sup>1</sup>	liter per second (L/s)
	2.832x10 <sup>-2</sup>	cubic meter per second (m <sup>3</sup> /s)
	2.832x10 <sup>1</sup>	cubic decimeter per second (dm³/s)
gallon per minute (gal/min)	6.309x10 <sup>-2</sup>	liter per second (L/s)
	6.309x10 <sup>-5</sup>	cubic meter per second (m <sup>3</sup> /s)
	6.309x10 <sup>-2</sup>	cubic decimeter per second (dm³/s)
million gallons per day (Mgal/d)	4.381x10 <sup>-2</sup>	cubic meter per second (m <sup>3</sup> /s)
	4.381x10 <sup>1</sup>	cubic decimeter per second (dm <sup>3</sup> /s)
	Mass	
ton (short)	9.072x10 <sup>-1</sup>	megagram (Mg) or metric ton

Temperature in degrees Celsius (°C) may be converted to degrees Fahrenheit (°F) as follows:

<sup>°</sup>F = (1.8 x °C) + 32